

Well Name: HAWK 9 FEDERAL COM	Well Location: T18S / R27E / SEC 10 / SWNW / 32.7628952 / -104.2720252	County or Parish/State: EDDY / NM
Well Number: 4H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0031186	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553890	Operator: RILEY PERMIAN OPERATING COMPANY LLC	

Notice of Intent

Sundry ID: 2787394

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 05/01/2024	Time Sundry Submitted: 01:58
Date proposed operation will begin: 08/12/2024	

Procedure Description: Riley Permian is planning on shifting the originally permitted lateral to more effectively produce the target minerals. The target formation and unit are unchanged. All other items in the drilling plan are staying the same. Hawk 9 Federal Com 3H, 4H, 5H, 7H, and 8H are included in the shift and have been submitted separately.

NOI Attachments

- Procedure Description
- 0_Hawk_9_Fed_Com_C102_4H_signed_20240731125025.pdf
 - Hawk_9_Federal_Com_4H__Well_Plan_v3_20240730172213.pdf

Well Name: HAWK 9 FEDERAL COM	Well Location: T18S / R27E / SEC 10 / SWNW / 32.7628952 / -104.2720252	County or Parish/State: EDDY / NM
Well Number: 4H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0031186	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553890	Operator: RILEY PERMIAN OPERATING COMPANY LLC	

Operator

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

Operator Electronic Signature: JORDAN LUKASIK

Signed on: JUL 31, 2024 12:50 PM

Name: RILEY PERMIAN OPERATING COMPANY LLC

Title: Regulatory Analyst

Street Address: 8620 WOLFF COURT

City: WESTMINSTERState: CO

Phone: (303) 928-7128

Email address: JLUKASIK@ASCENTGEOMATICS.COM

Field

Representative Name: Spence Laird

Street Address: 29 E Reno Avenue, Suite 500

City: Oklahoma CityState: OKZip: 73104

Phone: (405)523-1411

Email address: spencelaird@rileypermian.com

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 08/02/2024

Signature: Keith Immatty

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	
11. Country or Parish, State	

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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ 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 recompleate 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 perfonned 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 recompleation 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 detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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.	Office	

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWNW / 2405 FNL / 889 FWL / TWSP: 18S / RANGE: 27E / SECTION: 10 / LAT: 32.7628952 / LONG: -104.2720252 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2280 FSL / 100 FEL / TWSP: 18S / RANGE: 27E / SECTION: 9 / LAT: 32.7613662 / LONG: -104.2752553 (TVD: 4142 feet, MD: 4766 feet)

BHL: NWSW / 2280 FSL / 1 FWL / TWSP: 18S / RANGE: 27E / SECTION: 9 / LAT: 32.761366 / LONG: -104.2920165 (TVD: 3817 feet, MD: 10088 feet)

CONFIDENTIAL

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT



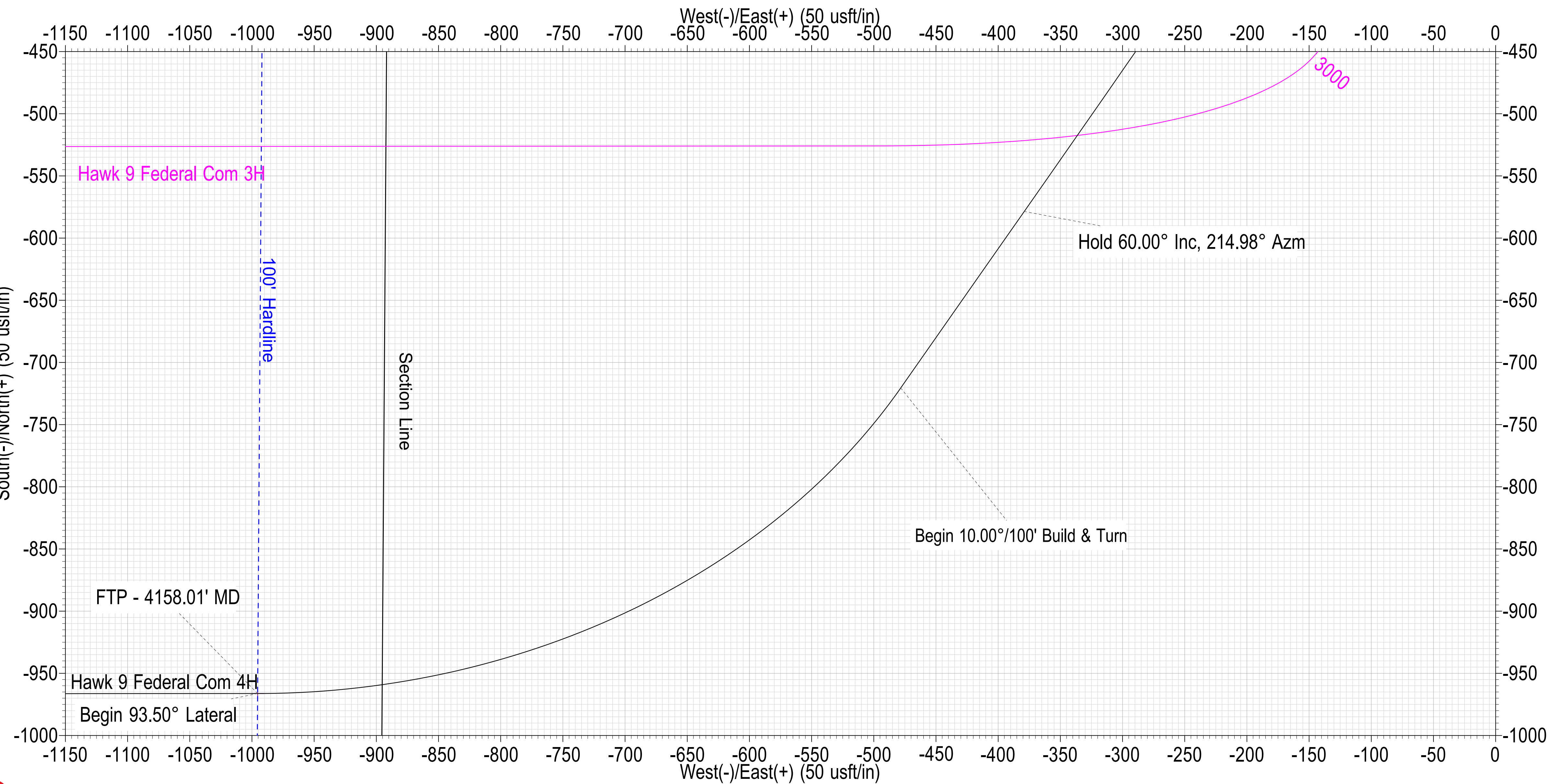
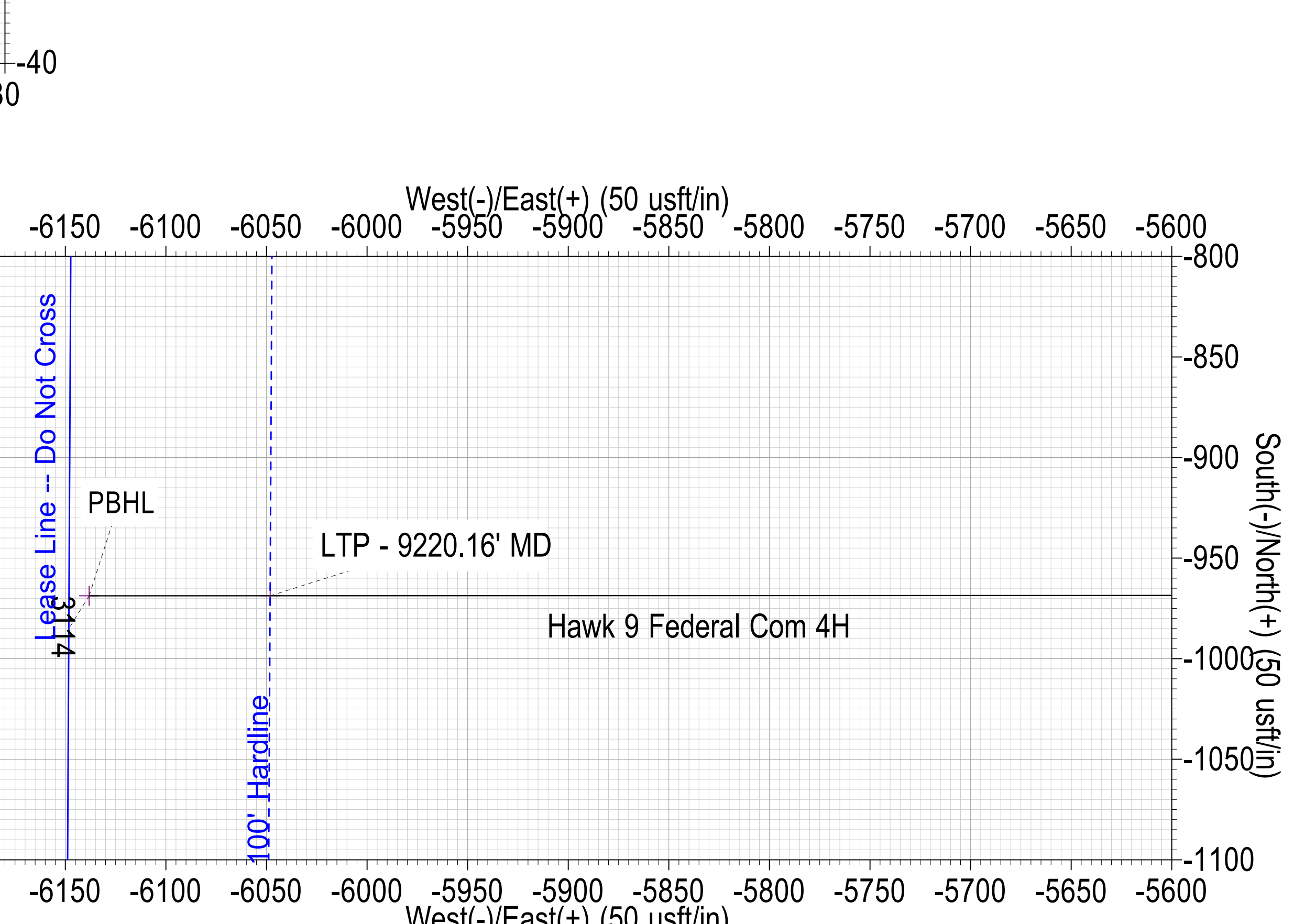
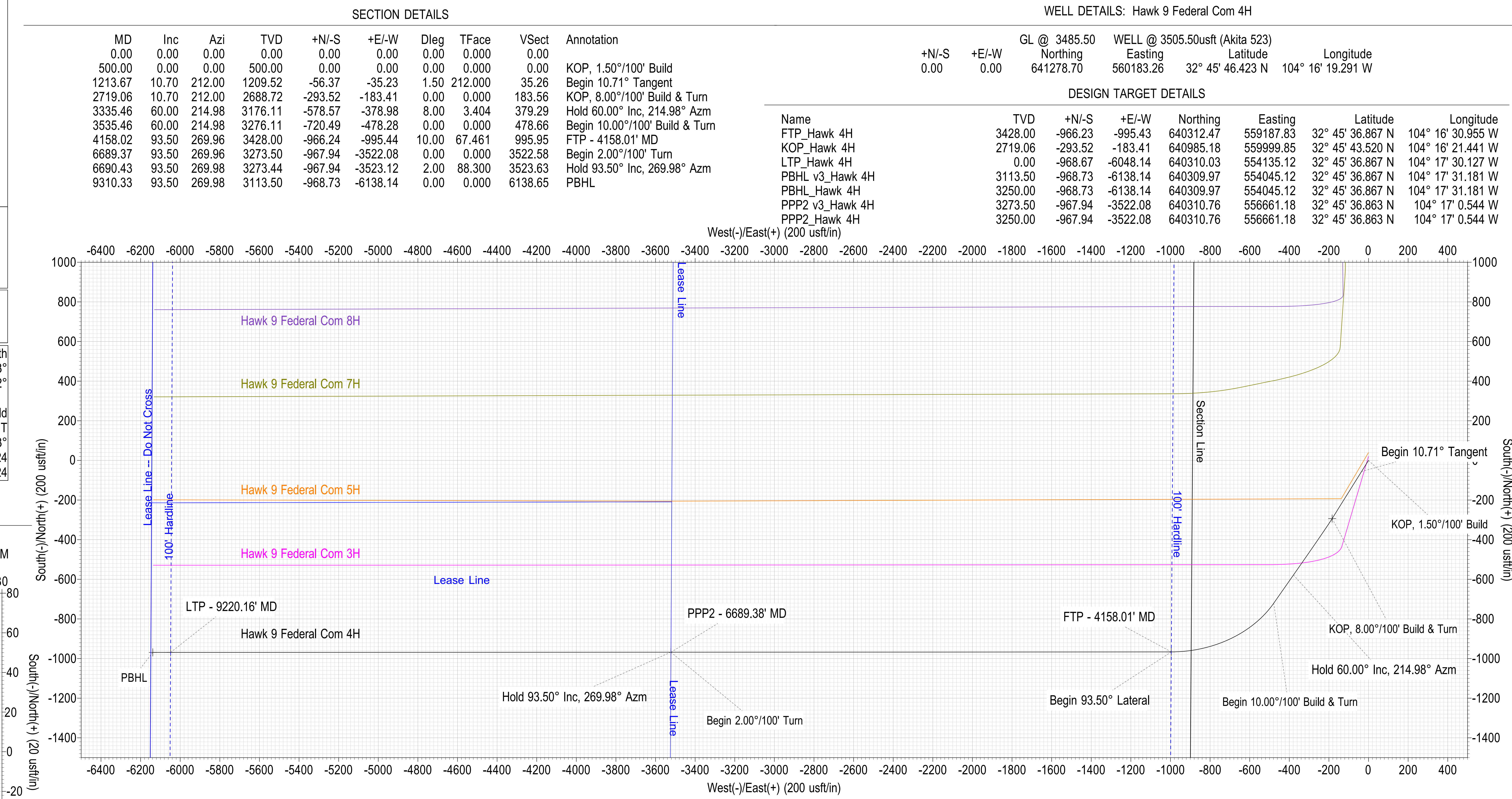
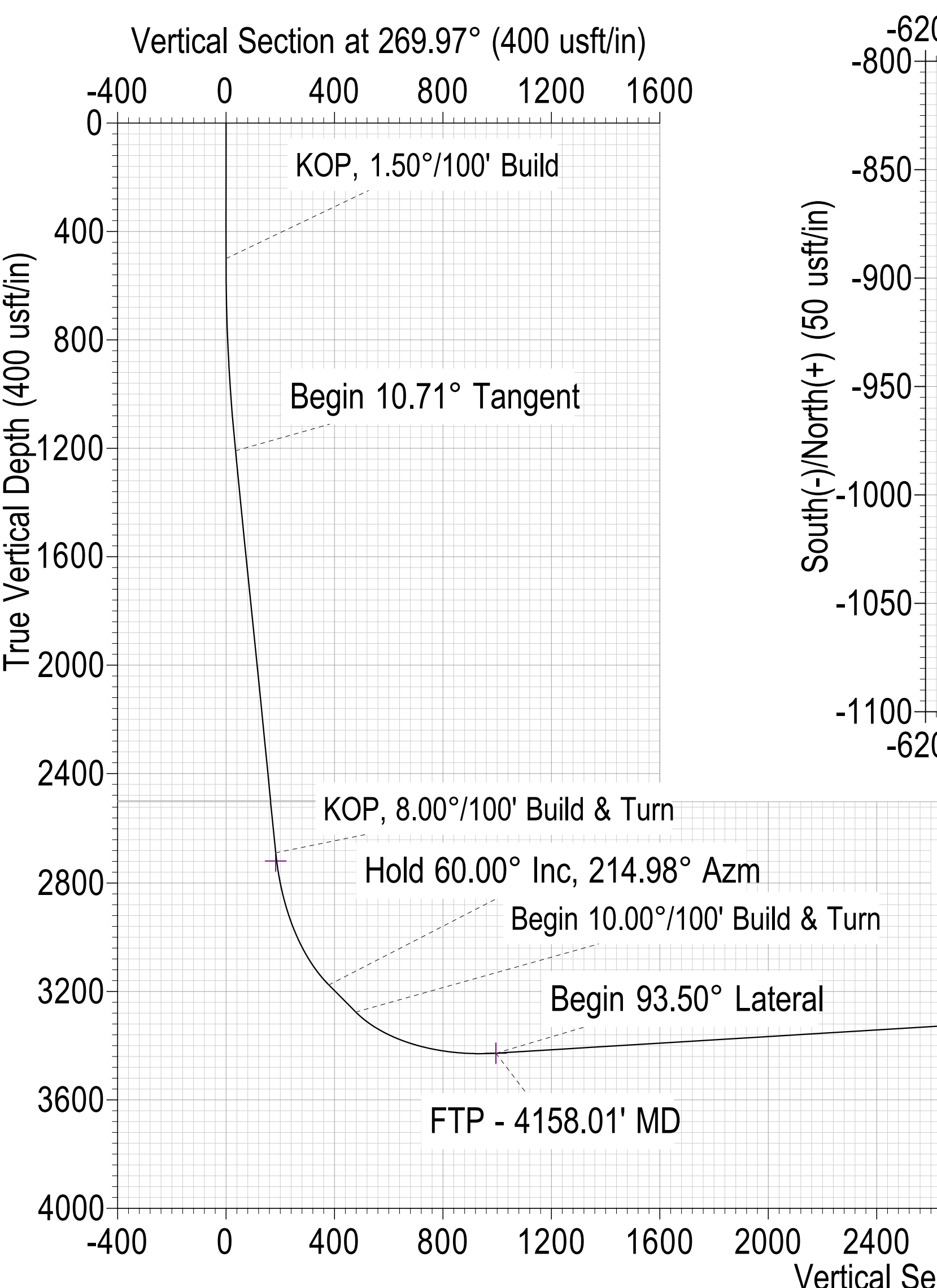
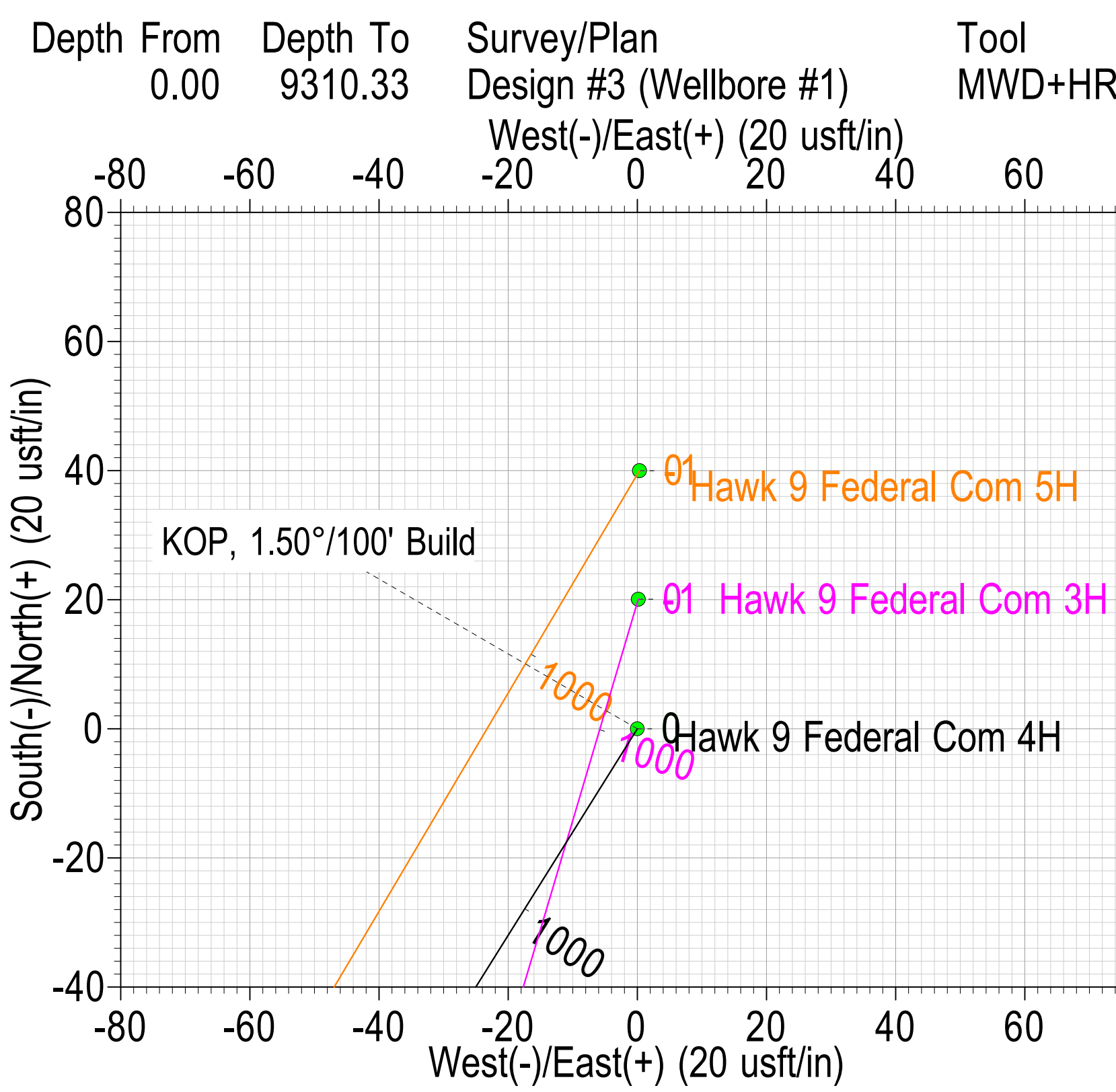
Company: Riley Permian Operating Co., LLC
Well: Hawk 9 Federal Com 4H
County: Eddy County, New Mexico (NAD 83)
Rig: Akita 523
Wellbore: Wellbore #1
Design: Design #3
Date: 12:07, July 24 2024

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.717°
To convert a Magnetic Direction to a True Direction, Add 6.750° East
To convert a True Direction to a Grid Direction, Subtract 0.033°



SURVEY PROGRAM





Riley Permian Operating Co., LLC

Eddy County, New Mexico (NAD 83)

Hawk 9 Federal Com (3-8H)

Hawk 9 Federal Com 4H

Wellbore #1

Plan: Design #3

Standard Planning Report

24 July, 2024





MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Hawk 9 Federal Com 4H
Company:	Riley Permian Operating Co., LLC	TVD Reference:	WELL @ 3505.50usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3505.50usft (Akita 523)
Site:	Hawk 9 Federal Com (3-8H)	North Reference:	Grid
Well:	Hawk 9 Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Project	Eddy County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Hawk 9 Federal Com (3-8H)		
Site Position:		Northing:	641,298.76 usft
From:	Map	Easting:	560,183.42 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 45' 46.621 N
		Longitude:	104° 16' 19.289 W

Well	Hawk 9 Federal Com 4H					
Well Position	+N/-S	0.00 usft	Northing:	641,278.70 usft	Latitude:	32° 45' 46.423 N
	+E/-W	0.00 usft	Easting:	560,183.26 usft	Longitude:	104° 16' 19.291 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,485.50 usft
Grid Convergence:		0.033 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	4/10/2024	6.750	60.333	47,431.60

Design	Design #3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	269.97	

Plan Survey Tool Program	Date	7/24/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	9,310.33	Design #3 (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	



MS Directional Planning Report



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Company:	Riley Permian Operating Co., LLC	TVD Reference:	WELL @ 3505.50usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3505.50usft (Akita 523)
Site:	Hawk 9 Federal Com (3-8H)	North Reference:	Grid
Well:	Hawk 9 Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,213.67	10.71	212.00	1,209.52	-56.37	-35.23	1.50	1.50	0.00	212.000	
2,719.06	10.71	212.00	2,688.72	-293.52	-183.41	0.00	0.00	0.00	0.000	
3,335.46	60.00	214.98	3,176.11	-578.57	-378.98	8.00	8.00	0.48	3.404	
3,535.46	60.00	214.98	3,276.11	-720.49	-478.28	0.00	0.00	0.00	0.000	
4,158.02	93.50	269.96	3,428.00	-966.24	-995.44	10.00	5.38	8.83	67.461	
6,689.37	93.50	269.96	3,273.50	-967.94	-3,522.08	0.00	0.00	0.00	0.000	PPP2 v3_Hawk 4H
6,690.43	93.50	269.98	3,273.44	-967.94	-3,523.12	2.00	0.06	2.00	88.300	
9,310.33	93.50	269.98	3,113.50	-968.73	-6,138.14	0.00	0.00	0.00	0.000	PBHL v3_Hawk 4H



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Hawk 9 Federal Com 4H
Company:	Riley Permian Operating Co., LLC	TVD Reference:	WELL @ 3505.50usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3505.50usft (Akita 523)
Site:	Hawk 9 Federal Com (3-8H)	North Reference:	Grid
Well:	Hawk 9 Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
KOP, 1.50°/100' Build									
600.00	1.50	212.00	599.99	-1.11	-0.69	0.69	1.50	1.50	0.00
700.00	3.00	212.00	699.91	-4.44	-2.77	2.78	1.50	1.50	0.00
800.00	4.50	212.00	799.69	-9.99	-6.24	6.24	1.50	1.50	0.00
900.00	6.00	212.00	899.27	-17.75	-11.09	11.10	1.50	1.50	0.00
1,000.00	7.50	212.00	998.57	-27.71	-17.32	17.33	1.50	1.50	0.00
1,100.00	9.00	212.00	1,097.54	-39.88	-24.92	24.94	1.50	1.50	0.00
1,200.00	10.50	212.00	1,196.09	-54.24	-33.89	33.92	1.50	1.50	0.00
1,213.67	10.71	212.00	1,209.52	-56.37	-35.23	35.26	1.50	1.50	0.00
Begin 10.71° Tangent									
1,300.00	10.71	212.00	1,294.35	-69.97	-43.73	43.76	0.00	0.00	0.00
1,400.00	10.71	212.00	1,392.61	-85.73	-53.57	53.61	0.00	0.00	0.00
1,500.00	10.71	212.00	1,490.87	-101.48	-63.41	63.46	0.00	0.00	0.00
1,600.00	10.71	212.00	1,589.13	-117.23	-73.26	73.32	0.00	0.00	0.00
1,700.00	10.71	212.00	1,687.39	-132.99	-83.10	83.17	0.00	0.00	0.00
1,800.00	10.71	212.00	1,785.65	-148.74	-92.94	93.02	0.00	0.00	0.00
1,900.00	10.71	212.00	1,883.91	-164.49	-102.79	102.87	0.00	0.00	0.00
2,000.00	10.71	212.00	1,982.17	-180.24	-112.63	112.72	0.00	0.00	0.00
2,100.00	10.71	212.00	2,080.43	-196.00	-122.47	122.57	0.00	0.00	0.00
2,200.00	10.71	212.00	2,178.69	-211.75	-132.32	132.43	0.00	0.00	0.00
2,300.00	10.71	212.00	2,276.95	-227.50	-142.16	142.28	0.00	0.00	0.00
2,400.00	10.71	212.00	2,375.21	-243.25	-152.00	152.13	0.00	0.00	0.00
2,500.00	10.71	212.00	2,473.47	-259.01	-161.85	161.98	0.00	0.00	0.00
2,600.00	10.71	212.00	2,571.73	-274.76	-171.69	171.83	0.00	0.00	0.00
2,700.00	10.71	212.00	2,669.99	-290.51	-181.53	181.68	0.00	0.00	0.00
2,719.06	10.71	212.00	2,688.72	-293.52	-183.41	183.56	0.00	0.00	0.00
KOP, 8.00°/100' Build & Turn									
2,750.00	13.18	212.64	2,718.98	-298.92	-186.83	186.99	8.00	7.99	2.08
2,800.00	17.17	213.30	2,767.23	-309.89	-193.96	194.13	8.00	7.99	1.31
2,850.00	21.17	213.71	2,814.45	-323.58	-203.03	203.20	8.00	8.00	0.83
2,900.00	25.17	214.00	2,860.41	-339.91	-213.99	214.17	8.00	8.00	0.57
2,950.00	29.17	214.21	2,904.88	-358.81	-226.79	226.98	8.00	8.00	0.43
3,000.00	33.17	214.38	2,947.66	-380.18	-241.37	241.57	8.00	8.00	0.33
3,050.00	37.17	214.51	2,988.52	-403.92	-257.66	257.87	8.00	8.00	0.27
3,100.00	41.17	214.62	3,027.28	-429.92	-275.57	275.80	8.00	8.00	0.22
3,150.00	45.16	214.72	3,063.74	-458.05	-295.03	295.27	8.00	8.00	0.19
3,200.00	49.16	214.80	3,097.73	-488.16	-315.93	316.18	8.00	8.00	0.16
3,250.00	53.16	214.87	3,129.08	-520.13	-338.17	338.44	8.00	8.00	0.15
3,300.00	57.16	214.94	3,157.63	-553.78	-361.65	361.94	8.00	8.00	0.13
3,335.46	60.00	214.98	3,176.11	-578.57	-378.98	379.29	8.00	8.00	0.12
Hold 60.00° Inc, 214.98° Azm									
3,400.00	60.00	214.98	3,208.39	-624.37	-411.03	411.36	0.00	0.00	0.00
3,500.00	60.00	214.98	3,258.39	-695.33	-460.68	461.04	0.00	0.00	0.00
3,535.46	60.00	214.98	3,276.11	-720.49	-478.28	478.66	0.00	0.00	0.00
Begin 10.00°/100' Build & Turn									
3,550.00	60.57	216.52	3,283.32	-730.74	-485.66	486.04	10.00	3.89	10.61
3,600.00	62.64	221.69	3,307.11	-764.84	-513.41	513.81	10.00	4.16	10.34
3,650.00	64.91	226.67	3,329.22	-796.97	-544.66	545.08	10.00	4.52	9.94



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Hawk 9 Federal Com 4H
Company:	Riley Permian Operating Co., LLC	TVD Reference:	WELL @ 3505.50usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3505.50usft (Akita 523)
Site:	Hawk 9 Federal Com (3-8H)	North Reference:	Grid
Well:	Hawk 9 Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,700.00	67.33	231.45	3,349.47	-826.91	-579.19	579.62	10.00	4.84	9.57
3,750.00	69.88	236.07	3,367.72	-854.40	-616.73	617.18	10.00	5.12	9.23
3,800.00	72.56	240.53	3,383.82	-879.26	-657.00	657.46	10.00	5.35	8.93
3,850.00	75.33	244.86	3,397.66	-901.28	-699.68	700.16	10.00	5.54	8.66
3,900.00	78.17	249.08	3,409.12	-920.30	-744.46	744.95	10.00	5.70	8.44
3,950.00	81.08	253.22	3,418.12	-936.18	-791.00	791.49	10.00	5.82	8.27
4,000.00	84.04	257.29	3,424.60	-948.79	-838.93	839.43	10.00	5.91	8.14
4,050.00	87.02	261.31	3,428.50	-958.04	-887.89	888.40	10.00	5.97	8.05
4,100.00	90.02	265.31	3,429.79	-963.85	-937.52	938.03	10.00	6.00	8.01
4,150.00	93.02	269.32	3,428.46	-966.19	-987.43	987.94	10.00	6.00	8.01
4,158.01	93.50	269.96	3,428.00	-966.24	-995.43	995.94	10.00	5.98	8.02
FTP - 4158.01' MD									
4,158.02	93.50	269.96	3,428.00	-966.24	-995.44	995.95	10.00	5.98	8.03
Begin 93.50° Lateral									
4,200.00	93.50	269.96	3,425.44	-966.27	-1,037.34	1,037.85	0.00	0.00	0.00
4,300.00	93.50	269.96	3,419.34	-966.34	-1,137.16	1,137.66	0.00	0.00	0.00
4,400.00	93.50	269.96	3,413.23	-966.41	-1,236.97	1,237.48	0.00	0.00	0.00
4,500.00	93.50	269.96	3,407.13	-966.47	-1,336.78	1,337.29	0.00	0.00	0.00
4,600.00	93.50	269.96	3,401.03	-966.54	-1,436.60	1,437.10	0.00	0.00	0.00
4,700.00	93.50	269.96	3,394.92	-966.61	-1,536.41	1,536.92	0.00	0.00	0.00
4,800.00	93.50	269.96	3,388.82	-966.67	-1,636.22	1,636.73	0.00	0.00	0.00
4,900.00	93.50	269.96	3,382.72	-966.74	-1,736.04	1,736.54	0.00	0.00	0.00
5,000.00	93.50	269.96	3,376.61	-966.81	-1,835.85	1,836.36	0.00	0.00	0.00
5,100.00	93.50	269.96	3,370.51	-966.87	-1,935.66	1,936.17	0.00	0.00	0.00
5,200.00	93.50	269.96	3,364.40	-966.94	-2,035.48	2,035.98	0.00	0.00	0.00
5,300.00	93.50	269.96	3,358.30	-967.01	-2,135.29	2,135.80	0.00	0.00	0.00
5,400.00	93.50	269.96	3,352.20	-967.07	-2,235.11	2,235.61	0.00	0.00	0.00
5,500.00	93.50	269.96	3,346.09	-967.14	-2,334.92	2,335.42	0.00	0.00	0.00
5,600.00	93.50	269.96	3,339.99	-967.21	-2,434.73	2,435.24	0.00	0.00	0.00
5,700.00	93.50	269.96	3,333.89	-967.28	-2,534.55	2,535.05	0.00	0.00	0.00
5,800.00	93.50	269.96	3,327.78	-967.34	-2,634.36	2,634.87	0.00	0.00	0.00
5,900.00	93.50	269.96	3,321.68	-967.41	-2,734.17	2,734.68	0.00	0.00	0.00
6,000.00	93.50	269.96	3,315.58	-967.48	-2,833.99	2,834.49	0.00	0.00	0.00
6,100.00	93.50	269.96	3,309.47	-967.54	-2,933.80	2,934.31	0.00	0.00	0.00
6,200.00	93.50	269.96	3,303.37	-967.61	-3,033.61	3,034.12	0.00	0.00	0.00
6,300.00	93.50	269.96	3,297.27	-967.68	-3,133.43	3,133.93	0.00	0.00	0.00
6,400.00	93.50	269.96	3,291.16	-967.74	-3,233.24	3,233.75	0.00	0.00	0.00
6,500.00	93.50	269.96	3,285.06	-967.81	-3,333.05	3,333.56	0.00	0.00	0.00
6,600.00	93.50	269.96	3,278.96	-967.88	-3,432.87	3,433.37	0.00	0.00	0.00
6,689.37	93.50	269.96	3,273.50	-967.94	-3,522.08	3,522.58	0.00	0.00	0.00
Begin 2.00°/100' Turn									
6,689.38	93.50	269.96	3,273.50	-967.94	-3,522.08	3,522.59	0.00	0.00	0.00
PPP2 - 6689.38' MD									
6,690.43	93.50	269.98	3,273.44	-967.94	-3,523.12	3,523.63	2.01	0.06	2.01
Hold 93.50° Inc, 269.98° Azm									
6,700.00	93.50	269.98	3,272.85	-967.94	-3,532.68	3,533.19	0.00	0.00	0.00
6,800.00	93.50	269.98	3,266.75	-967.97	-3,632.49	3,633.00	0.00	0.00	0.00
6,900.00	93.50	269.98	3,260.64	-968.00	-3,732.31	3,732.81	0.00	0.00	0.00
7,000.00	93.50	269.98	3,254.54	-968.03	-3,832.12	3,832.63	0.00	0.00	0.00
7,100.00	93.50	269.98	3,248.43	-968.06	-3,931.94	3,932.44	0.00	0.00	0.00
7,200.00	93.50	269.98	3,242.33	-968.09	-4,031.75	4,032.25	0.00	0.00	0.00
7,300.00	93.50	269.98	3,236.22	-968.12	-4,131.56	4,132.07	0.00	0.00	0.00
7,400.00	93.50	269.98	3,230.12	-968.15	-4,231.38	4,231.88	0.00	0.00	0.00



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Hawk 9 Federal Com 4H
Company:	Riley Permian Operating Co., LLC	TVD Reference:	WELL @ 3505.50usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3505.50usft (Akita 523)
Site:	Hawk 9 Federal Com (3-8H)	North Reference:	Grid
Well:	Hawk 9 Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,500.00	93.50	269.98	3,224.01	-968.18	-4,331.19	4,331.70	0.00	0.00	0.00	
7,600.00	93.50	269.98	3,217.91	-968.21	-4,431.00	4,431.51	0.00	0.00	0.00	
7,700.00	93.50	269.98	3,211.81	-968.24	-4,530.82	4,531.32	0.00	0.00	0.00	
7,800.00	93.50	269.98	3,205.70	-968.27	-4,630.63	4,631.14	0.00	0.00	0.00	
7,900.00	93.50	269.98	3,199.60	-968.30	-4,730.44	4,730.95	0.00	0.00	0.00	
8,000.00	93.50	269.98	3,193.49	-968.33	-4,830.26	4,830.76	0.00	0.00	0.00	
8,100.00	93.50	269.98	3,187.39	-968.36	-4,930.07	4,930.58	0.00	0.00	0.00	
8,200.00	93.50	269.98	3,181.28	-968.39	-5,029.88	5,030.39	0.00	0.00	0.00	
8,300.00	93.50	269.98	3,175.18	-968.42	-5,129.70	5,130.20	0.00	0.00	0.00	
8,400.00	93.50	269.98	3,169.07	-968.45	-5,229.51	5,230.02	0.00	0.00	0.00	
8,500.00	93.50	269.98	3,162.97	-968.48	-5,329.32	5,329.83	0.00	0.00	0.00	
8,600.00	93.50	269.98	3,156.86	-968.51	-5,429.14	5,429.64	0.00	0.00	0.00	
8,700.00	93.50	269.98	3,150.76	-968.54	-5,528.95	5,529.46	0.00	0.00	0.00	
8,800.00	93.50	269.98	3,144.65	-968.57	-5,628.76	5,629.27	0.00	0.00	0.00	
8,900.00	93.50	269.98	3,138.55	-968.60	-5,728.58	5,729.08	0.00	0.00	0.00	
9,000.00	93.50	269.98	3,132.44	-968.63	-5,828.39	5,828.90	0.00	0.00	0.00	
9,100.00	93.50	269.98	3,126.34	-968.66	-5,928.20	5,928.71	0.00	0.00	0.00	
9,200.00	93.50	269.98	3,120.24	-968.69	-6,028.02	6,028.52	0.00	0.00	0.00	
9,220.16	93.50	269.98	3,119.00	-968.70	-6,048.14	6,048.65	0.00	0.00	0.00	
LTP - 9220.16' MD										
9,300.00	93.50	269.98	3,114.13	-968.72	-6,127.83	6,128.34	0.00	0.00	0.00	
9,310.33	93.50	269.98	3,113.50	-968.73	-6,138.14	6,138.65	0.00	0.00	0.00	
PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP_Hawk 4H	0.00	0.00	0.00	-968.67	-6,048.14	640,310.03	554,135.12	32° 45' 36.867 N	104° 17' 30.127 W	
- hit/miss target										
- Shape										
- plan misses target center by 3114.80usft at 9310.33usft MD (3113.50 TVD, -968.73 N, -6138.14 E)										
- Point										
KOP_Hawk 4H	0.00	0.00	2,719.06	-293.52	-183.41	640,985.18	559,999.85	32° 45' 43.520 N	104° 16' 21.441 W	
- hit/miss target										
- Shape										
- plan misses target center by 6.25usft at 2748.75usft MD (2717.77 TVD, -298.68 N, -186.68 E)										
- Point										
PBHL v3_Hawk 4H	0.00	0.00	3,113.50	-968.73	-6,138.14	640,309.98	554,045.12	32° 45' 36.867 N	104° 17' 31.181 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										
PPP2 v3_Hawk 4H	0.00	0.00	3,273.50	-967.94	-3,522.08	640,310.77	556,661.19	32° 45' 36.863 N	104° 17' 0.544 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										
FTP_Hawk 4H	0.00	0.00	3,428.00	-966.23	-995.43	640,312.47	559,187.83	32° 45' 36.867 N	104° 16' 30.955 W	
- hit/miss target										
- Shape										
- plan misses target center by 0.01usft at 4158.01usft MD (3428.00 TVD, -966.24 N, -995.43 E)										
- Point										



MS Directional
Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Hawk 9 Federal Com 4H
Company:	Riley Permian Operating Co., LLC	TVD Reference:	WELL @ 3505.50usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3505.50usft (Akita 523)
Site:	Hawk 9 Federal Com (3-8H)	North Reference:	Grid
Well:	Hawk 9 Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	500.00	0.00	0.00	KOP, 1.50°/100' Build
1,213.67	1,209.52	-56.37	-35.23	Begin 10.71° Tangent
2,719.06	2,688.72	-293.52	-183.41	KOP, 8.00°/100' Build & Turn
3,335.46	3,176.11	-578.57	-378.98	Hold 60.00° Inc, 214.98° Azm
3,535.46	3,276.11	-720.49	-478.28	Begin 10.00°/100' Build & Turn
4,158.01	3,428.00	-966.24	-995.43	FTP - 4158.01' MD
4,158.02	3,428.00	-966.24	-995.44	Begin 93.50° Lateral
6,689.37	3,273.50	-967.94	-3,522.08	Begin 2.00°/100' Turn
6,689.38	3,273.50	-967.94	-3,522.08	PPP2 - 6689.38' MD
6,690.43	3,273.44	-967.94	-3,523.12	Hold 93.50° Inc, 269.98° Azm
9,220.16	3,119.00	-968.70	-6,048.14	LTP - 9220.16' MD
9,310.33	3,113.50	-968.73	-6,138.14	PBHL

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 369826

CONDITIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue, Suite 500 Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 369826
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	9/13/2024