

Well Name: CARRACAS 21A	Well Location: T32N / R5W / SEC 21 / SWSE / 36.96042 / -107.36562	County or Parish/State: RIO ARRIBA / NM
Well Number: 1	Type of Well: OTHER	Allottee or Tribe Name:
Lease Number: NMNM30351	Unit or CA Name:	Unit or CA Number:
US Well Number: 300393016700S1	Well Status: Producing Gas Well	Operator: MORNINGSTAR PARTNERS LP

Notice of Intent

Sundry ID: 2647213

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 12/06/2021	Time Sundry Submitted: 12:28
Date proposed operation will begin: 04/01/2022	

Procedure Description: MorningStar requests approval to drill a horizontal sidetrack off of the Carracas 21A1. The proposed lateral will be within the current lease. Attached are the Proposed Procedure, OCD Form C-102 Plat, Current and Proposed WBDs, Well Path Plan, Directional Plan, and Anti-Collision Report.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Carracas_Unit_21A_1_1ST__Anti_Collision_Rpt_20211206122717.pdf
- Carracas_Unit_21A_1_1ST_Directional_Plan_20211206122708.pdf
- Carracas_Unit_21A_1_1ST_Well_Path_Plan_20211206122655.pdf
- Carracas_21A_1_1ST_WBD_Proposed_20211206122638.pdf
- Carracas_21A_1_WBD_current_06_10_2021_20211206122627.pdf
- CARRACAS_21A1_1ST_C102_Plat_20211206122615.pdf
- Carracas_21A1_1ST_Proposed_Procedure_20211206122552.pdf

Well Name: CARRACAS 21A	Well Location: T32N / R5W / SEC 21 / SWSE / 36.96042 / -107.36562	County or Parish/State: RIO ARRIBA / NM
Well Number: 1	Type of Well: OTHER	Allottee or Tribe Name:
Lease Number: NMNM30351	Unit or CA Name:	Unit or CA Number:
US Well Number: 300393016700S1	Well Status: Producing Gas Well	Operator: MORNINGSTAR PARTNERS LP

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: CONNIE BLAYLOCK	Signed on: DEC 06, 2021 12:27 PM
Name: MORNINGSTAR PARTNERS LP	
Title: Regulatory Technician	
Street Address: 400 W 7th St.	
City: Forth Worth	State: TX
Phone: (817) 334-7882	
Email address: CBLAYLOCK@MSPARTNERS.COM	

Field Representative

Representative Name: AMY BYARS		
Street Address:		
City:	State:	Zip:
Phone:		
Email address: ABYARS@MSPARTNERS.COM		

BLM Point of Contact

BLM POC Name: DAVE J MANKIEWICZ	BLM POC Title: AFM-Minerals
BLM POC Phone: 5055647761	BLM POC Email Address: DMANKIEW@BLM.GOV
Disposition: Approved	Disposition Date: 12/21/2021
Signature: Dave Mankiewicz	

DISTRICT I1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720**DISTRICT II**811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720**DISTRICT III**1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170**DISTRICT IV**1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505Form C-102
Revised August 1, 2011Submit one copy to appropriate
District Office☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30167	² Pool Code 71629	³ Pool Name BASIN FRIUTLAND COAL
⁴ Property Code 329019	⁶ Property Name CARRACAS 21A	⁸ Well Number 1-1ST
⁷ GRID No. 330132	⁵ Operator Name MORNINGSTAR OPERATING LLC	⁹ Elevation 7064'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	21	32N	5W		698'	SOUTH	2020'	EAST	RIO ARRIBA

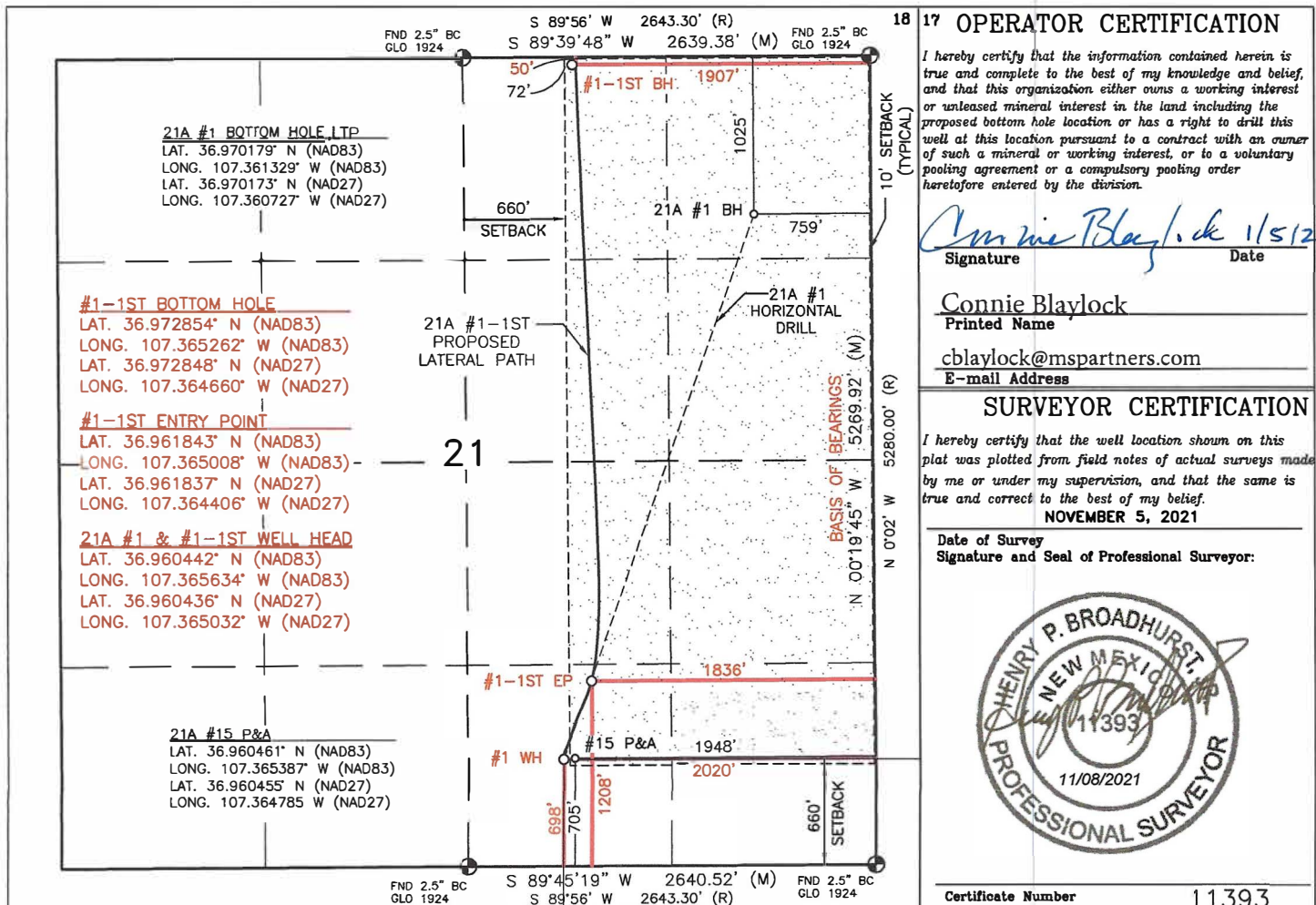
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	32N	5W		50'	NORTH	1907'	EAST	RIO ARRIBA

¹² Dedicated Acres E/2 SEC. 21 320.00 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13119
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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Carracas 21 A 1 sidetrack procedures

MorningStar Operating requests approval to perform the following Sidetrack Procedure:

1. Prepare existing well for drilling operations with a Pulling Unit
2. Pull tubing and rods
3. PU Mill and TIH to verify casing is clean
4. Set bottom Bridge Plug at approximately 3,900', above open Liner
5. Roll hole and pressure test casing
6. Set top Bridge Plug at approximately 3,823' below proposed window area
7. Release Pulling Unit
8. MIRU drilling rig
9. RU BOP and test
10. PU whipstock and casing mill assembly and set whipstock for casing exit at 3,803' MD
11. Release whip and mill window f/ 3,796' to 3,803'
12. TOOH for curve BHA and drill sidetrack
13. Planned exit at 3,803' MD / 3,627' TVD (directional pilot well)
14. Drill 6-1/4" curve and lateral from 3,803' MD / 3,627' TVD to 7,858' MD / 3,635' TVD at 91.4° Inc, 357.57° azimuth
15. TOOH and run 4-1/2" pre-perforated liner from approximately 3,810' MD to 7,848' MD
16. Rig down and release drilling rig
17. MIRU Pulling Unit
18. RIH and retrieve whipstock w/ work string and jars
19. Retrieve or drill out upper Bridge Plug at 3,823'
20. LD work string
21. Run production tubing and equipment to test lateral completion
22. Secure well, rig down and move off location

ATTACHED ARE WELLPATH RPT, PLAT(C-102), WBD.

MorningStar Operating, LLC

Carracas 21 A 1 Rio Arriba County, NM 32N-5W Section 21

TD – 7,080' MD; 3,685' TVD

12 1/4" hole to 230'
Csg: 5 jts – 9 5/8" 32.3# H-40 ST&C
Setting Depth: 223'

Cement
125 sx Class G (148 ft³)
Circ. 10 bbls cmt to surface

8 3/4" hole to 4,380'
Csg: 99 jts – 7" 23# J-55 LT&C
Setting Depth: 4,355'

Cement
Lead: 550 sx Halliburton Light
Tail: 125 sx Class G (1422 ft³)
Circ. 20 bbls cmt to surface

6 1/4" hole to 7,080'
Liner: 66 jts- 4 1/2" 11.6# J-55 LT&C
Setting Depth: 7,080'
TOL: 4,298'
No cement

Prepared by: CArnold
Date: 02/18/2019
Updated: B.Savage 06/14/2021

KB = 14'
GL = 7,065'
API# 30-039-30167

Spud Date: 09/30/2008
First Delivered: 12/09/2008

Formation Tops:

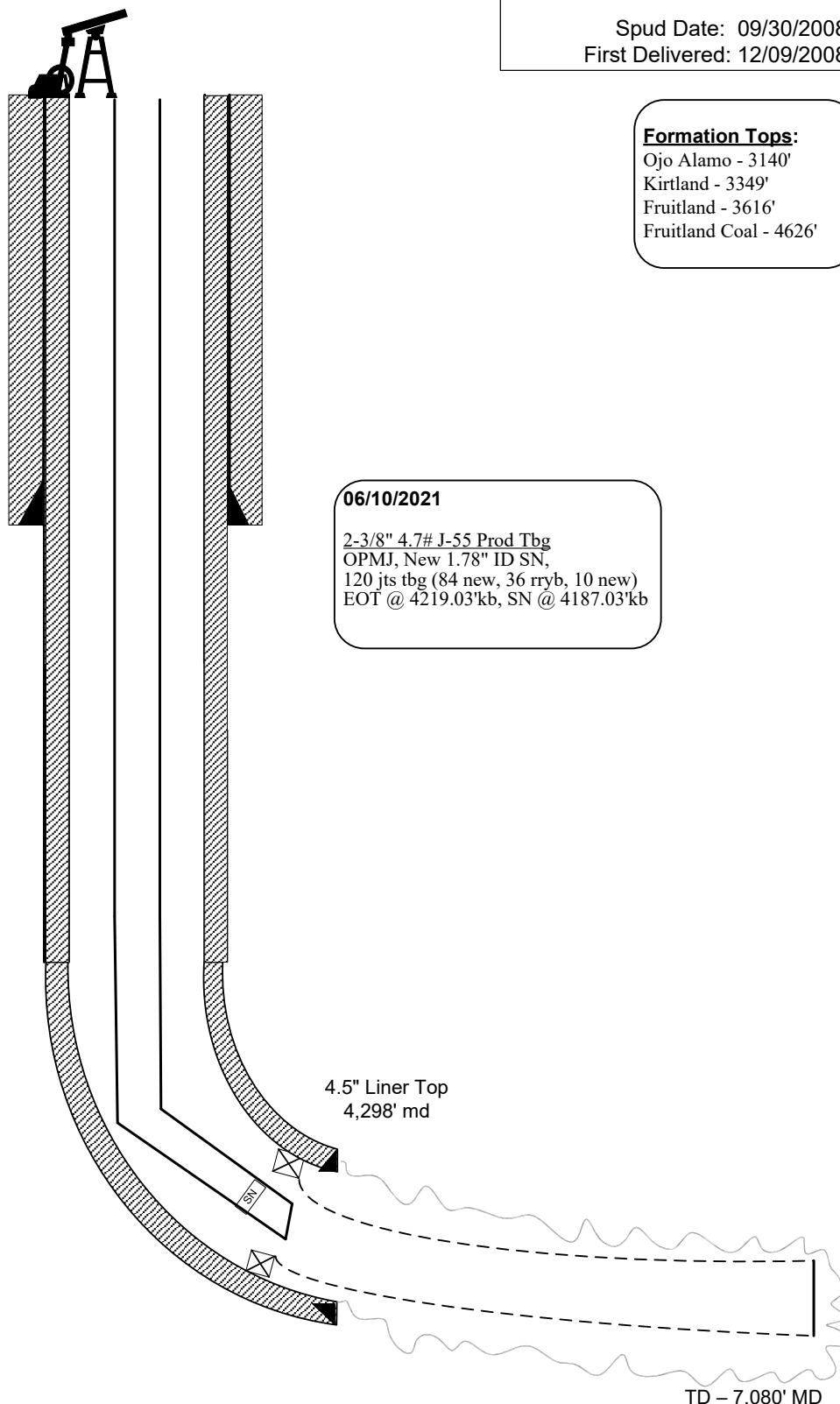
Ojo Alamo - 3140'
Kirtland - 3349'
Fruitland - 3616'
Fruitland Coal - 4626'

06/10/2021

2-3/8" 4.7# J-55 Prod Tbg
OPMJ, New 1.78" ID SN,
120 jts tbg (84 new, 36 rryb, 10 new)
EOT @ 4219.03'kb, SN @ 4187.03'kb

4.5" Liner Top
4,298' md

Perforations:
Pre-Perforated Liner
4349-7031'
16,092 holes @ 6 jsp/ft



TD – 7,080' MD

MorningStar Operating, LLC

Sidetrack Proposal

Carracas 21 A 1
Rio Arriba County, NM
32N-5W Section 21

Sidetrack TD – 7,848' MD; 3,657' TVD
Lower TD – 7,080' MD; 3,685' TVD

12 1/4" hole to 230'
Csg: 5 jts – 9 5/8" 32.3# H-40 ST&C
Setting Depth: 223'

Cement
125 sx Class G (148 ft³)
Circ. 10 bbls cmt to surface

8 3/4" hole to 4,380'
Csg: 99 jts – 7" 23# J-55 LT&C
Setting Depth: 4,355'

Cement
Lead: 550 sx Halliburton Light
Tail: 125 sx Class G (1422 ft³)
Circ. 20 bbls cmt to surface

6 1/4" Upper sidetrack hole to 7,858
Liner: Est. 96 jts – 4 1/2" 11.6# J-55 LT&C
Setting Depth 7,848'
TOL: 3,810'
No Cement

6 1/4" Lower lateral hole to 7,080'
Liner: 66 jts – 4 1/2" 11.6# J-55 LT&C
Setting Depth: 7,080'
TOL: 4,298'
No cement

Whipstock @ 3,803'

BP @ 3,823'
@ 68°

BP @ 3,900'
@ 69°

Lower Perforations:
Pre-Perforated Liner
4,349' – 7,031'
16,092 holes @ 6 jspf

Sidetrack Window f/ 3,796' -3,803'

4.5" Liner Top
4,298' md

7" Set @ 4,355' MD

TD – 7,858' MD, 3,635' TVD

TD – 7,080' MD, 3,657' TVD

Prepared by: CArnold
Date: 02/18/2019
Updated: B.Savage 06/14/2021
Updated: J Marschall 11/09/2021
KB = 18'
GL = 7,064'
API# 30-039-30167

Spud Date: 09/30/2008
First Delivered: 12/09/2008

Formation Tops:

Ojo Alamo - 3140'
Kirtland - 3349'
Fruitland - 3616'
Fruitland Coal - 4626'

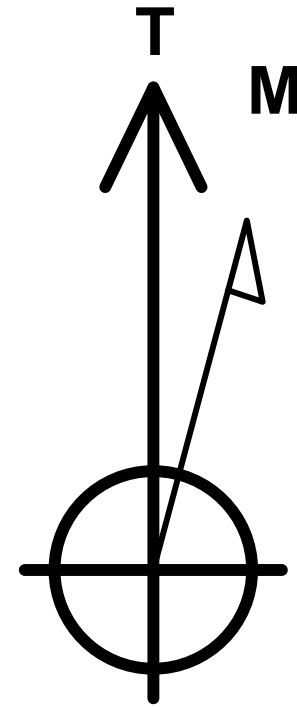
06/10/2021

2-3/8" 4.7# J-55 Prod Tbg
OPMJ, New 1.78" ID SN,
120 jts tbg (84 new, 36 rryb, 10 new)
EOT @ 4219.03'kb, SN @ 4187.03'kb

Upper ST Perforations:
Pre-Perforated Liner
Est. 4,220' - 7,816' = 3,596'
Est. 10,836 holes @ 6 jspf
Est 43 jts per'd (every other)



Company: MorningStar Partners
Field: Rio Arriba County, NM
Location: Carracas Unit 21A 1
Well Location: Carracas Unit 21A 1
Wellbore: ST01
Plan: Plan 3
GL: GL: 7064' + 18' KB @ 7082.00usft



Azimuths to True North
Magnetic North: 8.69°

Magnetic Field
Strength: 49729.4nT
Dip Angle: 63.43°
Date: 11/1/2021
Model: IGRF2020



To convert a Magnetic Direction to a True Direction, Add 8.69° East

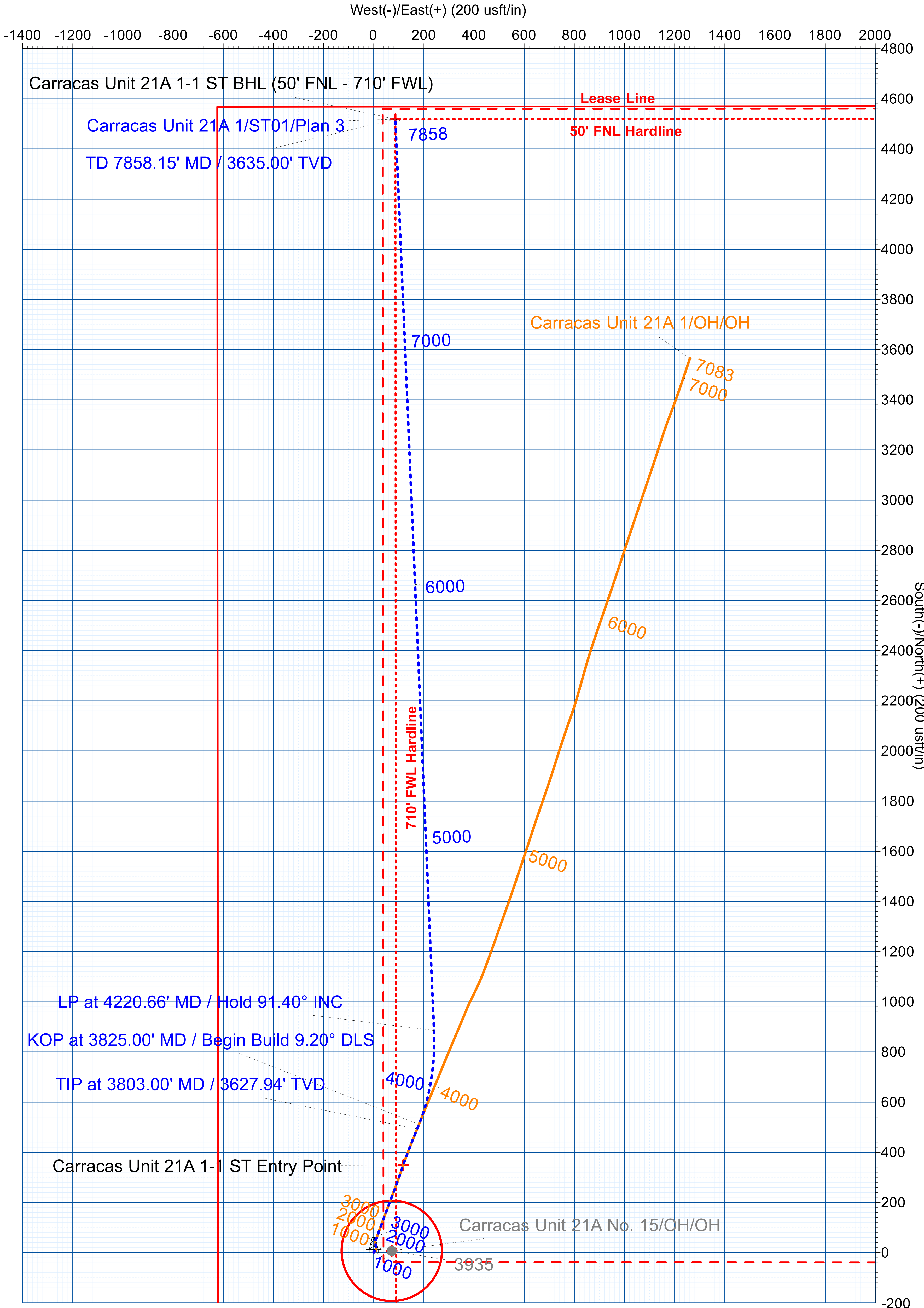
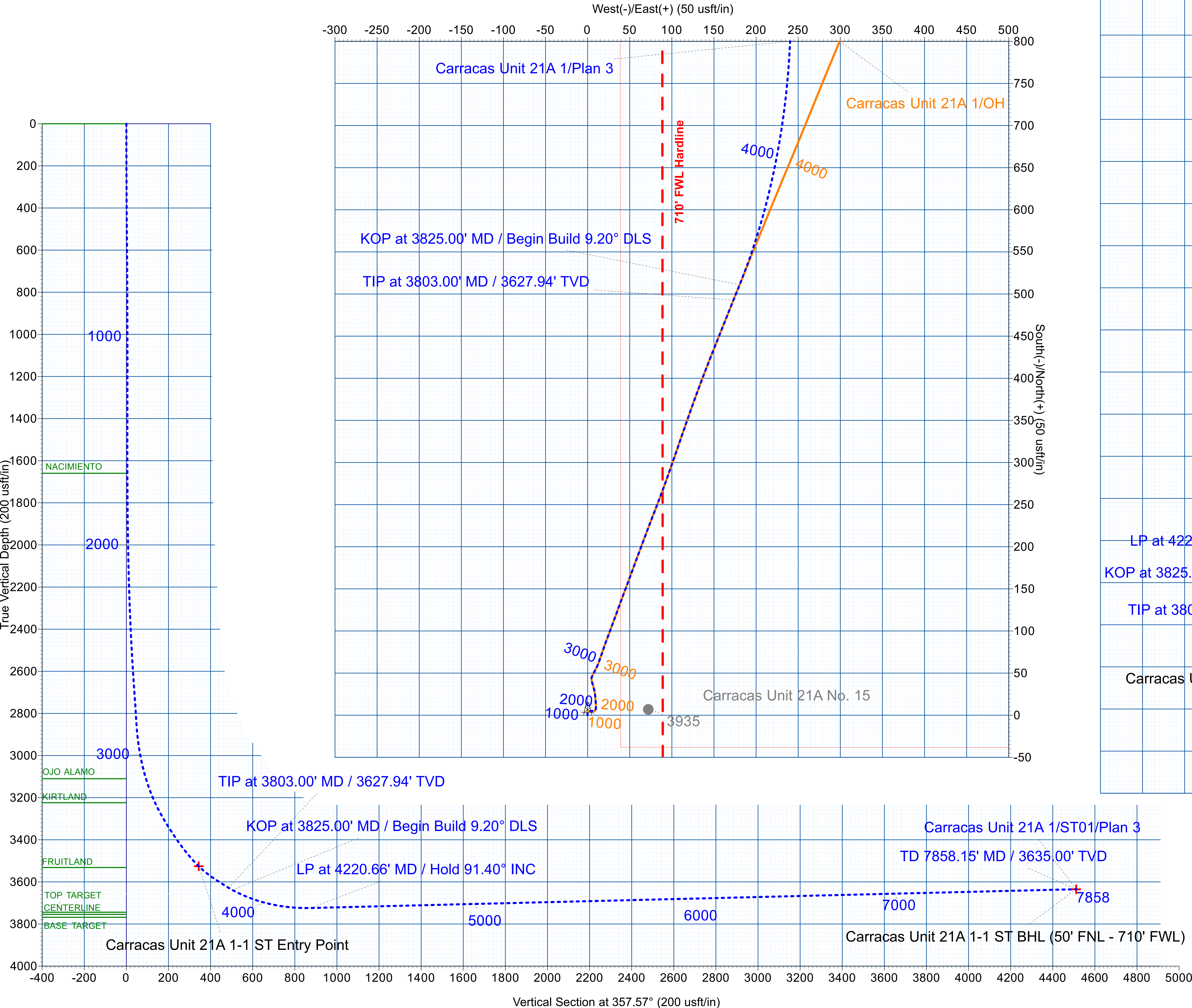
PROJECT DETAILS: Rio Arriba County, NM

WELL DETAILS: Carracas Unit 21A 1

Geodetic System: US State Plane 1927 (Exact solution)	GL: 7064' + 18' KB @ 7082.00usft 7064.00						
Datum: NAD 1927 (NADCON CONUS)							
Ellipsoid: Clarke 1866	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
Zone: New Mexico West 3003	0.00	0.00	2169202.28	636822.39	36.960436	-107.365032	
System Datum: Mean Sea Level							

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
3803.00	61.58	21.90	3627.94	492.83	173.18	0.00	0.00	485.04	TIP at 3803.00' MD / 3627.94' TVD
3825.00	63.63	21.97	3638.06	510.95	180.48	9.32	1.75	502.84	KOP at 3825.00' MD / Begin Build 9.20° DLS
4220.66	91.40	357.57	3724.00	885.61	240.45	9.20	-44.09	874.62	LP at 4220.66' MD / Hold 91.40° INC
7858.15	91.40	357.57	3635.00	4518.75	86.45	0.00	0.00	4511.02	TD 7858.15' MD / 3635.00' TVD



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1659.88	1659.94	NACIMIENTO
3107.74	3114.09	OJO ALAMO
3220.71	3236.14	KIRTLAND
3523.66	3614.62	FRUITLAND
3723.78	4174.09	TOP TARGET

MorningStar Partners

Rio Arriba County, NM

Carracas Unit 21A 1

Carracas Unit 21A 1

ST01

Plan: Plan 3

Standard Survey Report

09 November, 2021



Legacy Directional Survey Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Well:	Carracas Unit 21A 1	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	Plan 3	Database:	EDM 5000.14 Single User Db

Project	Rio Arriba County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Carracas Unit 21A 1		
Site Position:		Northing:	2,169,202.28 usft
From:	Map	Easting:	636,822.39 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	36.960436
		Longitude:	-107.365032

Well	Carracas Unit 21A 1		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.28 °	Latitude:	36.960436
		Longitude:	-107.365032
		Ground Level:	7,064.00 usft

Wellbore	ST01		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	11/1/2021	8.69
			Dip Angle (°)
			63.43
			Field Strength (nT)
			49,729.44396299

Design	Plan 3		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			3,803.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			357.57

Survey Tool Program	Date	11/1/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
103.00	3,803.00	Surveys (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM
3,803.00	7,858.15	Plan 3 (ST01)	MWD+IGRF	OWSG MWD + IGRF or WMM

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	
103.00	0.11	356.15	103.00	0.10	-0.01	0.10	0.11	0.11	0.00	
203.00	0.22	356.15	203.00	0.39	-0.03	0.39	0.11	0.11	0.00	
303.00	0.32	356.15	303.00	0.86	-0.06	0.86	0.10	0.10	0.00	
403.00	0.43	356.15	403.00	1.51	-0.10	1.51	0.11	0.11	0.00	
495.00	0.53	356.15	494.99	2.28	-0.15	2.28	0.11	0.11	0.00	
503.00	0.52	356.91	502.99	2.35	-0.16	2.36	0.15	-0.13	9.50	
603.00	0.44	8.48	602.99	3.18	-0.13	3.19	0.13	-0.08	11.57	
703.00	0.38	24.38	702.99	3.87	0.07	3.86	0.13	-0.06	15.90	

Legacy Directional Survey Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Well:	Carracas Unit 21A 1	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	Plan 3	Database:	EDM 5000.14 Single User Db

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)
803.00	0.36	43.80	802.98	4.39	0.42	4.37	0.13	-0.02	19.42
903.00	0.39	63.03	902.98	4.78	0.94	4.73	0.13	0.03	19.23
995.00	0.44	77.50	994.98	4.99	1.57	4.92	0.13	0.05	15.73
1,003.00	0.44	78.02	1,002.98	5.01	1.63	4.93	0.05	0.00	6.50
1,103.00	0.49	83.83	1,102.98	5.13	2.43	5.03	0.07	0.05	5.81
1,203.00	0.54	88.60	1,202.97	5.19	3.32	5.04	0.07	0.05	4.77
1,303.00	0.59	92.54	1,302.97	5.18	4.31	4.99	0.06	0.05	3.94
1,403.00	0.65	95.82	1,402.96	5.10	5.39	4.87	0.07	0.06	3.28
1,493.00	0.70	98.32	1,492.96	4.97	6.44	4.69	0.06	0.06	2.78
1,503.00	0.69	96.84	1,502.95	4.95	6.56	4.67	0.21	-0.10	-14.80
1,603.00	0.57	78.25	1,602.95	4.98	7.64	4.65	0.24	-0.12	-18.59
1,703.00	0.53	54.07	1,702.94	5.35	8.51	4.99	0.23	-0.04	-24.18
1,803.00	0.60	31.07	1,802.94	6.07	9.15	5.68	0.24	0.07	-23.00
1,903.00	0.73	14.51	1,902.93	7.14	9.58	6.73	0.23	0.13	-16.56
1,989.00	0.88	4.96	1,988.92	8.33	9.78	7.91	0.23	0.17	-11.10
2,003.00	0.94	3.97	2,002.92	8.55	9.79	8.13	0.44	0.43	-7.07
2,103.00	1.36	359.38	2,102.90	10.55	9.84	10.13	0.43	0.42	-4.59
2,203.00	1.79	356.99	2,202.86	13.30	9.74	12.88	0.43	0.43	-2.39
2,303.00	2.23	355.52	2,302.80	16.80	9.51	16.38	0.44	0.44	-1.47
2,403.00	2.66	354.53	2,402.71	21.05	9.13	20.64	0.43	0.43	-0.99
2,479.00	2.99	353.97	2,478.62	24.78	8.76	24.38	0.44	0.43	-0.74
2,503.00	3.13	352.04	2,502.58	26.05	8.60	25.66	0.72	0.58	-8.04
2,603.00	3.74	345.59	2,602.40	31.91	7.41	31.57	0.72	0.61	-6.45
2,663.00	4.13	342.66	2,662.26	35.87	6.28	35.57	0.73	0.65	-4.88
2,693.00	3.93	343.80	2,692.19	37.89	5.67	37.61	0.72	-0.67	3.80
2,703.00	4.02	344.08	2,702.17	38.55	5.48	38.29	0.92	0.90	2.80
2,724.00	4.22	344.64	2,723.11	40.00	5.07	39.75	0.97	0.95	2.67
2,754.00	3.96	353.34	2,753.03	42.10	4.66	41.86	2.24	-0.87	29.00
2,785.00	3.52	8.11	2,783.97	44.10	4.67	43.87	3.40	-1.42	47.65
2,803.00	3.74	17.33	2,801.93	45.21	4.92	44.96	3.46	1.22	51.22
2,816.00	3.96	23.24	2,814.90	46.03	5.23	45.77	3.49	1.69	45.46
2,847.00	4.13	26.00	2,845.83	48.02	6.14	47.71	0.83	0.55	8.90
2,877.00	5.19	28.60	2,875.73	50.18	7.26	49.82	3.60	3.53	8.67
2,908.00	6.95	27.67	2,906.55	53.07	8.80	52.65	5.69	5.68	-3.00
2,940.00	8.71	26.44	2,938.25	56.95	10.78	56.45	5.52	5.50	-3.84
2,972.00	9.94	19.91	2,969.83	61.72	12.80	61.12	5.06	3.84	-20.41
3,003.00	11.34	19.82	3,000.30	67.10	14.75	66.42	4.52	4.52	-0.29
3,035.00	13.28	18.89	3,031.56	73.54	17.00	72.75	6.09	6.06	-2.91
3,066.00	15.04	18.84	3,061.62	80.72	19.46	79.82	5.68	5.68	-0.16
3,098.00	16.80	20.54	3,092.39	88.98	22.42	87.95	5.69	5.50	5.31
3,103.00	17.16	20.57	3,097.17	90.35	22.93	89.29	7.20	7.20	0.60
3,130.00	19.08	20.72	3,122.83	98.20	25.89	97.02	7.11	7.11	0.56
3,153.00	20.65	20.20	3,144.46	105.53	28.62	104.22	6.87	6.83	-2.26

Legacy Directional Survey Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Well:	Carracas Unit 21A 1	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	Plan 3	Database:	EDM 5000.14 Single User Db

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)
3,161.00	21.19	20.04	3,151.93	108.21	29.61	106.86	6.79	6.75	-2.00
3,193.00	23.21	20.14	3,181.56	119.56	33.76	118.02	6.31	6.31	0.31
3,203.00	23.95	20.10	3,190.72	123.32	35.14	121.72	7.40	7.40	-0.40
3,225.00	25.59	20.01	3,210.70	131.98	38.30	130.23	7.46	7.45	-0.41
3,257.00	28.14	20.89	3,239.24	145.52	43.35	143.55	8.06	7.97	2.75
3,289.00	29.99	20.06	3,267.21	160.09	48.79	157.87	5.92	5.78	-2.59
3,303.00	30.79	20.19	3,279.29	166.74	51.22	164.41	5.73	5.71	0.93
3,321.00	31.83	20.34	3,294.67	175.51	54.46	173.04	5.79	5.78	0.83
3,352.00	33.41	20.55	3,320.78	191.17	60.30	188.44	5.11	5.10	0.68
3,384.00	35.00	20.32	3,347.24	208.03	66.58	205.02	4.99	4.97	-0.72
3,403.00	35.36	20.76	3,362.77	218.28	70.42	215.09	2.32	1.89	2.32
3,416.00	35.61	21.06	3,373.36	225.33	73.12	222.02	2.34	1.92	2.31
3,448.00	36.76	21.08	3,399.18	242.95	79.91	239.35	3.59	3.59	0.06
3,453.00	37.06	21.02	3,403.18	245.76	80.99	242.10	6.04	6.00	-1.20
3,480.00	38.69	20.70	3,424.49	261.25	86.89	257.33	6.08	6.04	-1.19
3,511.00	40.10	19.64	3,448.45	279.71	93.67	275.49	5.04	4.55	-3.42
3,543.00	41.94	19.19	3,472.59	299.52	100.65	294.99	5.82	5.75	-1.41
3,553.00	42.60	19.17	3,479.99	305.88	102.86	301.24	6.60	6.60	-0.20
3,575.00	44.05	19.14	3,496.00	320.13	107.81	315.28	6.59	6.59	-0.14
3,607.00	46.69	19.04	3,518.47	341.65	115.26	336.46	8.25	8.25	-0.31
3,639.00	50.21	19.65	3,539.70	364.24	123.19	358.69	11.09	11.00	1.91
3,653.00	52.06	19.95	3,548.48	374.50	126.89	368.78	13.32	13.21	2.14
3,671.00	54.43	20.31	3,559.25	388.04	131.85	382.10	13.26	13.17	2.00
3,703.00	57.77	21.29	3,577.10	412.86	141.28	406.50	10.74	10.44	3.06
3,734.00	58.92	21.77	3,593.36	437.41	150.97	430.61	3.94	3.71	1.55
3,766.00	59.62	21.85	3,609.72	462.95	161.19	455.70	2.20	2.19	0.25
3,798.00	61.11	21.89	3,625.54	488.76	171.55	481.05	4.66	4.66	0.13
3,803.00	61.58	21.90	3,627.94	492.83	173.18	485.04	9.40	9.40	0.20
TIP at 3803.00' MD / 3627.94' TVD									
3,825.00	63.63	21.97	3,638.06	510.95	180.48	502.84	9.32	9.32	0.32
KOP at 3825.00' MD / Begin Build 9.20° DLS									
3,850.00	65.29	20.21	3,648.84	531.99	188.59	523.52	9.20	6.65	-7.05
3,900.00	68.68	16.82	3,668.39	575.62	203.19	566.49	9.20	6.77	-6.77
3,950.00	72.13	13.59	3,685.16	621.07	215.52	611.37	9.20	6.90	-6.47
4,000.00	75.63	10.48	3,699.05	668.03	225.52	657.87	9.20	7.00	-6.22
4,050.00	79.17	7.47	3,709.96	716.22	233.12	705.69	9.20	7.08	-6.02
4,100.00	82.73	4.53	3,717.83	765.31	238.27	754.52	9.20	7.14	-5.88
4,150.00	86.32	1.63	3,722.60	815.00	240.94	804.05	9.20	7.17	-5.79
4,200.00	89.92	358.76	3,724.24	864.96	241.11	853.96	9.20	7.19	-5.74
4,220.66	91.40	357.57	3,724.00	885.61	240.45	874.62	9.20	7.19	-5.74
LP at 4220.66' MD / Hold 91.40° INC									
4,300.00	91.40	357.57	3,722.06	964.85	237.09	953.93	0.00	0.00	0.00
4,400.00	91.40	357.57	3,719.61	1,064.73	232.86	1,053.90	0.00	0.00	0.00
4,500.00	91.40	357.57	3,717.17	1,164.61	228.62	1,153.87	0.00	0.00	0.00

Legacy Directional Survey Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Well:	Carracas Unit 21A 1	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	Plan 3	Database:	EDM 5000.14 Single User Db

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)
4,600.00	91.40	357.57	3,714.72	1,264.49	224.39	1,253.84	0.00	0.00	0.00
4,700.00	91.40	357.57	3,712.27	1,364.37	220.15	1,353.81	0.00	0.00	0.00
4,800.00	91.40	357.57	3,709.83	1,464.25	215.92	1,453.78	0.00	0.00	0.00
4,900.00	91.40	357.57	3,707.38	1,564.13	211.69	1,553.75	0.00	0.00	0.00
5,000.00	91.40	357.57	3,704.93	1,664.01	207.45	1,653.72	0.00	0.00	0.00
5,100.00	91.40	357.57	3,702.49	1,763.89	203.22	1,753.69	0.00	0.00	0.00
5,200.00	91.40	357.57	3,700.04	1,863.77	198.99	1,853.66	0.00	0.00	0.00
5,300.00	91.40	357.57	3,697.59	1,963.65	194.75	1,953.63	0.00	0.00	0.00
5,400.00	91.40	357.57	3,695.15	2,063.53	190.52	2,053.60	0.00	0.00	0.00
5,500.00	91.40	357.57	3,692.70	2,163.41	186.28	2,153.57	0.00	0.00	0.00
5,600.00	91.40	357.57	3,690.25	2,263.29	182.05	2,253.54	0.00	0.00	0.00
5,700.00	91.40	357.57	3,687.81	2,363.17	177.82	2,353.51	0.00	0.00	0.00
5,800.00	91.40	357.57	3,685.36	2,463.06	173.58	2,453.48	0.00	0.00	0.00
5,900.00	91.40	357.57	3,682.91	2,562.94	169.35	2,553.45	0.00	0.00	0.00
6,000.00	91.40	357.57	3,680.46	2,662.82	165.12	2,653.42	0.00	0.00	0.00
6,100.00	91.40	357.57	3,678.02	2,762.70	160.88	2,753.39	0.00	0.00	0.00
6,200.00	91.40	357.57	3,675.57	2,862.58	156.65	2,853.36	0.00	0.00	0.00
6,300.00	91.40	357.57	3,673.12	2,962.46	152.41	2,953.33	0.00	0.00	0.00
6,400.00	91.40	357.57	3,670.68	3,062.34	148.18	3,053.30	0.00	0.00	0.00
6,500.00	91.40	357.57	3,668.23	3,162.22	143.95	3,153.27	0.00	0.00	0.00
6,600.00	91.40	357.57	3,665.78	3,262.10	139.71	3,253.24	0.00	0.00	0.00
6,700.00	91.40	357.57	3,663.34	3,361.98	135.48	3,353.21	0.00	0.00	0.00
6,800.00	91.40	357.57	3,660.89	3,461.86	131.25	3,453.18	0.00	0.00	0.00
6,900.00	91.40	357.57	3,658.44	3,561.74	127.01	3,553.15	0.00	0.00	0.00
7,000.00	91.40	357.57	3,656.00	3,661.62	122.78	3,653.12	0.00	0.00	0.00
7,100.00	91.40	357.57	3,653.55	3,761.50	118.54	3,753.09	0.00	0.00	0.00
7,200.00	91.40	357.57	3,651.10	3,861.38	114.31	3,853.06	0.00	0.00	0.00
7,300.00	91.40	357.57	3,648.66	3,961.26	110.08	3,953.03	0.00	0.00	0.00
7,400.00	91.40	357.57	3,646.21	4,061.14	105.84	4,053.00	0.00	0.00	0.00
7,500.00	91.40	357.57	3,643.76	4,161.02	101.61	4,152.97	0.00	0.00	0.00
7,600.00	91.40	357.57	3,641.32	4,260.90	97.38	4,252.94	0.00	0.00	0.00
7,700.00	91.40	357.57	3,638.87	4,360.78	93.14	4,352.91	0.00	0.00	0.00
7,800.00	91.40	357.57	3,636.42	4,460.66	88.91	4,452.88	0.00	0.00	0.00
7,858.15	91.40	357.57	3,635.00	4,518.75	86.45	4,511.02	0.00	0.00	0.00
TD 7858.15' MD / 3635.00' TVD									

Legacy Directional Survey Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Well:	Carracas Unit 21A 1	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	Plan 3	Database:	EDM 5000.14 Single User Db

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
Carracas Unit 21A 1-1 S - plan misses target center by 0.17usft at 3617.77usft MD (3525.78 TVD, 349.13 N, 117.85 E) - Point	0.00	0.00	3,525.75	349.10	118.02	2,169,551.95	636,938.69	36.961395	-107.364628
Carracas Unit 21A 1-1 S - plan hits target center - Point	0.00	0.00	3,635.00	4,518.75	86.45	2,173,721.40	636,886.63	36.972848	-107.364736
Carracas Unit 21A No. 1 - plan misses target center by 344.07usft at 3505.29usft MD (3444.07 TVD, 276.26 N, 92.43 E) - Circle (radius 200.00)	0.00	0.00	3,657.38	7.06	72.01	2,169,209.70	636,894.36	36.960456	-107.364786

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,659.94	1,659.88	NACIMIENTO		-1.40	357.44	
3,114.09	3,107.74	OJO ALAMO		-1.40	357.44	
3,236.14	3,220.71	KIRTLAND		-1.40	357.44	
3,614.62	3,523.66	FRUITLAND		-1.40	357.44	
4,174.09	3,723.78	TOP TARGET		-1.40	357.44	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3803	3628	493	173	TIP at 3803.00' MD / 3627.94' TVD	
3825	3638	511	180	KOP at 3825.00' MD / Begin Build 9.20° DLS	
4221	3724	886	240	LP at 4220.66' MD / Hold 91.40° INC	
7858	3635	4519	86	TD 7858.15' MD / 3635.00' TVD	

Checked By: _____ Approved By: _____ Date: _____

MorningStar Partners

Rio Arriba County, NM

Carracas Unit 21A 1

Carracas Unit 21A 1

ST01

Plan 3

Anticollision Report

01 November, 2021



Legacy Directional Anticollision Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Reference Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Carracas Unit 21A 1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan 3	Offset TVD Reference:	Offset Datum

Reference	Plan 3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 15,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	11/1/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
103.00	3,803.00	Surveys (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM	
3,803.00	7,858.15	Plan 3 (ST01)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary							
		Reference Measured	Offset Measured	Distance			
Site Name		Depth (usft)	Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design							
Carracas Unit 21A 1							
	Carracas Unit 21A 1 - OH - OH	4,200.00	4,189.40	79.33	68.34	7.217	CC, ES, SF
Carracas Unit 21A No. 15							
	Carracas Unit 21A No. 15 - OH - OH	2,038.34	2,019.55	62.22	5.12	1.090	Level 3, CC
	Carracas Unit 21A No. 15 - OH - OH	2,400.00	2,381.06	64.36	1.75	1.028	Level 3, ES, SF

Offset Design: Carracas Unit 21A 1 - Carracas Unit 21A 1 - OH - OH													Offset Site Error:	0.00 usft	
Survey Program:		103-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Reference	Offset	Reference	Offset	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Distance	Distance	Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)				
3,803.00	3,627.94	3,803.00	3,627.94	0.00	0.00	66.80	492.83	173.18	0.00	0.00	0.00	N/A			
3,900.00	3,668.39	3,899.85	3,667.39	1.05	1.42	73.89	574.73	206.35	3.43	1.09	2.34	1.467	Level 3		
4,000.00	3,699.05	3,998.57	3,698.83	2.38	2.94	92.32	661.19	242.10	17.94	12.68	5.26	3.410			
4,100.00	3,717.83	4,095.49	3,722.71	3.82	4.50	99.24	748.06	277.76	43.37	35.32	8.05	5.390			
4,200.00	3,724.24	4,189.40	3,733.21	5.31	6.06	97.16	834.05	313.62	79.33	68.34	10.99	7.217	CC, ES, SF		
4,300.00	3,722.06	4,281.07	3,730.25	6.74	7.63	93.60	918.41	349.34	121.75	107.72	14.03	8.678			
4,400.00	3,719.61	4,365.18	3,724.66	8.24	9.09	91.26	995.64	382.14	164.57	147.62	16.95	9.710			
4,500.00	3,717.17	4,460.78	3,718.52	9.81	10.82	89.74	1,081.75	423.17	211.47	191.28	20.18	10.477			
4,600.00	3,714.72	4,563.80	3,715.13	11.43	12.64	89.52	1,177.81	460.16	251.20	227.64	23.56	10.660			
4,700.00	3,712.27	4,662.48	3,714.18	13.10	14.38	89.86	1,270.76	493.28	288.73	261.84	26.89	10.737			
4,800.00	3,709.83	4,748.83	3,712.10	14.81	15.92	89.85	1,352.08	522.23	326.21	296.17	30.04	10.858			
4,900.00	3,707.38	4,847.12	3,709.77	16.54	17.69	89.85	1,444.85	554.64	363.11	329.63	33.48	10.845			
5,000.00	3,704.93	4,941.57	3,708.39	18.31	19.40	89.98	1,534.34	584.81	399.03	362.16	36.87	10.822			
5,100.00	3,702.49	5,040.76	3,706.58	20.10	21.21	90.05	1,628.43	616.15	434.60	394.19	40.41	10.756			
5,200.00	3,700.04	5,131.00	3,705.81	21.90	22.86	90.22	1,714.11	644.45	469.97	426.21	43.77	10.738			
5,300.00	3,697.59	5,218.84	3,704.02	23.73	24.49	90.23	1,797.15	673.04	506.48	459.39	47.09	10.755			
5,400.00	3,695.15	5,322.36	3,701.27	25.57	26.41	90.17	1,895.15	706.25	542.56	491.73	50.83	10.674			
5,500.00	3,692.70	5,421.52	3,699.13	27.42	28.26	90.17	1,989.55	736.53	577.10	522.62	54.47	10.594			
5,600.00	3,690.25	5,503.00	3,697.16	29.29	29.79	90.15	2,066.98	761.82	612.14	554.45	57.69	10.611			
5,700.00	3,687.81	5,592.78	3,694.34	31.16	31.49	90.07	2,151.69	791.44	649.08	587.95	61.13	10.618			
5,800.00	3,685.36	5,725.59	3,689.50	33.05	33.98	89.91	2,278.77	829.62	681.44	615.77	65.68	10.376			

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

Legacy Directional Anticollision Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Reference Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Carracas Unit 21A 1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan 3	Offset TVD Reference:	Offset Datum

Offset Design: Carracas Unit 21A 1 - Carracas Unit 21A 1 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 103-MWD+IGRF												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,900.00	3,682.91	5,810.51	3,687.20	34.94	35.57	89.88	2,360.35	853.10	713.15	644.11	69.04	10.329	
6,000.00	3,680.46	5,879.00	3,685.16	36.84	36.87	89.85	2,425.63	873.69	747.23	675.29	71.95	10.386	
6,100.00	3,678.02	5,965.34	3,682.28	38.74	38.52	89.78	2,507.38	901.31	783.22	707.90	75.32	10.399	
6,200.00	3,675.57	6,059.20	3,679.87	40.65	40.31	89.77	2,596.14	931.74	819.62	740.69	78.93	10.385	
6,300.00	3,673.12	6,162.26	3,677.88	42.57	42.29	89.81	2,693.67	964.97	855.87	773.05	82.82	10.335	
6,400.00	3,670.68	6,253.66	3,676.30	44.49	44.05	89.85	2,780.43	993.69	891.29	804.93	86.36	10.320	
6,500.00	3,668.23	6,348.89	3,674.16	46.41	45.88	89.86	2,870.83	1,023.55	926.63	836.60	90.03	10.293	
6,600.00	3,665.78	6,436.77	3,671.81	48.34	47.57	89.84	2,954.11	1,051.51	962.43	868.95	93.48	10.296	
6,700.00	3,663.34	6,530.99	3,671.37	50.27	49.39	89.95	3,043.40	1,081.57	998.32	901.19	97.13	10.279	
6,800.00	3,660.89	6,622.73	3,670.69	52.21	51.16	90.04	3,130.27	1,111.05	1,034.43	933.73	100.70	10.272	
6,900.00	3,658.44	6,737.96	3,669.52	54.14	53.39	90.12	3,239.74	1,146.98	1,069.65	964.64	105.01	10.186	
7,000.00	3,656.00	6,792.84	3,669.07	56.08	54.45	90.16	3,291.84	1,164.21	1,105.21	997.79	107.42	10.289	
7,100.00	3,653.55	6,862.66	3,667.45	58.03	55.82	90.16	3,357.18	1,188.76	1,144.13	1,033.88	110.25	10.378	
7,200.00	3,651.10	7,001.57	3,663.05	59.97	58.53	90.09	3,488.04	1,235.14	1,181.44	1,065.99	115.45	10.233	
7,300.00	3,648.66	7,083.00	3,660.72	61.92	60.11	90.06	3,565.20	1,261.03	1,217.25	1,098.54	118.71	10.254	
7,400.00	3,646.21	7,083.00	3,660.72	63.87	60.11	90.06	3,565.20	1,261.03	1,257.23	1,138.32	118.91	10.573	
7,500.00	3,643.76	7,083.00	3,660.72	65.82	60.11	90.06	3,565.20	1,261.03	1,303.67	1,185.18	118.49	11.003	
7,600.00	3,641.32	7,083.00	3,660.72	67.77	60.11	90.06	3,565.20	1,261.03	1,355.90	1,238.32	117.58	11.532	
7,700.00	3,638.87	7,083.00	3,660.72	69.73	60.11	90.06	3,565.20	1,261.03	1,413.29	1,296.99	116.30	12.152	
7,800.00	3,636.42	7,083.00	3,660.72	71.68	60.11	90.06	3,565.20	1,261.03	1,475.23	1,360.48	114.75	12.856	
7,858.15	3,635.00	7,083.00	3,660.72	72.82	60.11	90.06	3,565.20	1,261.03	1,513.13	1,399.36	113.77	13.300	

Legacy Directional Anticollision Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Reference Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Carracas Unit 21A 1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan 3	Offset TVD Reference:	Offset Datum

Offset Design: Carracas Unit 21A No. 15 - Carracas Unit 21A No. 15 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 324-INC-ONLY												Offset Well Error:	0.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	84.40	7.06	72.01	74.80				
100.00	100.00	81.00	81.00	0.33	1.41	88.32	7.06	72.01	72.35	70.87	1.48	48.900	
200.00	200.00	181.00	181.00	0.97	3.15	88.54	7.06	72.01	72.34	68.84	3.50	20.670	
300.00	300.00	281.00	281.00	1.47	4.89	88.91	7.06	72.01	72.33	66.91	5.42	13.342	
400.00	400.00	381.01	381.00	1.90	7.63	89.43	7.06	72.01	72.32	64.17	8.15	8.878	
500.00	499.99	481.01	480.99	2.28	11.13	89.62	7.06	72.01	72.32	60.87	11.45	6.315	
600.00	599.99	581.01	580.98	2.58	14.63	77.95	8.18	72.01	72.31	57.52	14.79	4.891	
700.00	699.99	681.03	681.00	2.97	18.13	62.86	8.00	72.01	72.07	53.96	18.10	3.981	
800.00	799.98	781.07	781.03	3.33	21.63	44.33	7.48	72.01	71.66	50.29	21.37	3.353	
900.00	899.98	881.08	880.98	3.66	24.81	25.64	7.06	72.01	71.12	46.69	24.42	2.912	
1,000.00	999.98	981.07	980.98	3.98	27.64	10.82	7.06	72.01	70.43	43.15	27.28	2.582	
1,100.00	1,099.98	1,081.07	1,080.97	4.28	30.47	3.85	8.14	72.01	69.67	39.40	30.27	2.302	
1,200.00	1,199.97	1,181.09	1,180.99	4.60	33.31	-0.78	7.96	72.01	68.77	35.65	33.11	2.077	
1,300.00	1,299.97	1,281.12	1,281.01	4.92	36.14	-4.33	7.42	72.01	67.76	31.86	35.90	1.888	
1,400.00	1,399.96	1,381.13	1,380.96	5.25	39.13	-7.42	7.06	72.01	66.68	27.84	38.84	1.717	
1,500.00	1,499.96	1,481.12	1,480.96	5.58	42.24	-9.13	7.06	72.01	65.52	23.58	41.94	1.562	
1,600.00	1,599.95	1,581.12	1,580.95	5.92	45.36	9.23	7.06	72.01	64.42	19.42	45.01	1.431 Level 3	
1,700.00	1,699.94	1,681.12	1,680.94	6.29	48.47	32.34	8.48	72.01	63.60	15.23	48.37	1.315 Level 3	
1,800.00	1,799.94	1,781.14	1,780.95	6.68	51.59	56.31	8.27	72.01	62.91	11.64	51.27	1.227 Level 3	
1,900.00	1,899.93	1,881.15	1,880.96	7.05	54.70	74.46	7.79	72.01	62.44	8.47	53.96	1.157 Level 3	
2,000.00	1,999.92	1,981.22	1,980.92	7.41	57.79	87.15	7.06	72.01	62.23	5.84	56.39	1.104 Level 3	
2,038.34	2,038.26	2,019.55	2,019.26	7.54	58.52	90.00	7.06	72.01	62.22	5.12	57.09	1.090 Level 3, CC	
2,100.00	2,099.90	2,081.20	2,080.90	7.74	59.70	93.67	7.06	72.01	62.26	4.10	58.16	1.070 Level 3	
2,200.00	2,199.87	2,181.15	2,180.84	8.11	61.62	98.03	7.68	72.01	62.50	2.57	59.93	1.043 Level 3	
2,300.00	2,299.80	2,281.15	2,280.80	8.47	63.63	103.19	7.06	72.01	63.22	2.02	61.21	1.033 Level 3	
2,400.00	2,399.71	2,381.06	2,380.71	8.83	65.98	107.85	7.06	72.01	64.36	1.75	62.62	1.028 Level 3, ES, SF	
2,500.00	2,499.59	2,480.94	2,480.59	9.18	68.34	114.24	7.06	72.01	66.12	2.21	63.91	1.035 Level 3	
2,600.00	2,599.41	2,580.76	2,580.41	9.53	70.69	125.10	7.06	72.01	69.09	3.90	65.19	1.060 Level 3	
2,700.00	2,699.17	2,680.47	2,680.10	9.88	73.04	130.16	8.44	72.01	72.89	6.06	66.83	1.091 Level 3	
2,800.00	2,798.94	2,780.15	2,779.78	10.23	75.39	102.90	8.10	72.01	76.62	8.34	68.28	1.122 Level 3	
2,900.00	2,898.61	2,879.69	2,879.32	10.59	77.74	97.18	7.50	72.01	77.79	8.10	69.69	1.116 Level 3	
3,000.00	2,997.35	2,978.81	2,978.35	10.98	80.07	115.73	7.06	72.01	82.71	11.23	71.48	1.157 Level 3	
3,100.00	3,094.30	3,075.75	3,075.30	11.38	82.33	127.30	7.06	72.01	96.11	20.89	75.23	1.278 Level 3	
3,200.00	3,187.98	3,169.43	3,168.98	11.78	84.53	139.46	7.06	72.01	121.00	40.17	80.83	1.497 Level 3	
3,300.00	3,276.71	3,257.73	3,257.27	12.25	86.59	148.37	8.02	72.01	158.71	72.22	86.50	1.835	
3,400.00	3,360.32	3,340.60	3,340.14	12.80	88.53	154.38	7.67	72.01	209.00	117.84	91.16	2.293	
3,500.00	3,440.00	3,419.24	3,418.76	13.46	90.37	159.62	7.10	72.01	266.69	171.80	94.88	2.811	
3,600.00	3,513.65	3,495.17	3,494.65	14.26	92.07	163.13	7.06	72.01	332.41	234.50	97.91	3.395	
3,700.00	3,575.49	3,557.01	3,556.49	15.21	93.45	159.14	7.06	72.01	409.19	308.82	100.36	4.077	
3,800.00	3,626.50	3,608.03	3,607.50	16.32	94.58	159.50	7.06	72.01	493.60	391.24	102.36	4.822	
3,900.00	3,668.39	3,649.91	3,649.39	17.39	95.52	169.57	7.06	72.01	583.49	478.88	104.61	5.578	
4,000.00	3,699.05	3,680.57	3,680.05	18.70	96.20	-169.65	7.06	72.01	678.56	573.17	105.39	6.438	
4,100.00	3,717.83	3,699.35	3,698.83	20.11	96.62	-132.56	7.06	72.01	776.26	670.61	105.65	7.347	
4,200.00	3,724.24	3,705.76	3,705.24	21.58	96.76	-90.39	7.06	72.01	874.40	768.95	105.45	8.292	
4,300.00	3,722.06	3,703.58	3,703.06	23.01	96.72	-83.55	7.06	72.01	971.91	866.92	104.99	9.258	
4,400.00	3,719.61	3,701.14	3,700.61	24.50	96.66	-82.87	7.06	72.01	1,069.83	965.24	104.59	10.229	
4,500.00	3,717.17	3,698.69	3,698.17	26.06	96.61	-82.20	7.06	72.01	1,168.09	1,063.84	104.25	11.204	
4,600.00	3,714.72	3,696.24	3,695.72	27.68	96.55	-81.54	7.06	72.01	1,266.63	1,162.66	103.96	12.183	
4,700.00	3,712.27	3,693.80	3,693.27	29.34	96.50	-80.87	7.06	72.01	1,365.37	1,261.66	103.71	13.165	
4,800.00	3,709.83	3,691.35	3,690.83	31.03	96.44	-80.21	7.06	72.01	1,464.28	1,360.78	103.49	14.149	
4,900.00	3,707.38	3,688.90	3,688.38	32.76	96.39	-79.55	7.06	72.01	1,563.32	1,460.02	103.30	15.134	
5,000.00	3,704.93	3,686.46	3,685.93	34.52	96.33	-78.89	7.06	72.01	1,662.48	1,559.35	103.13	16.121	

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

Legacy Directional Anticollision Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Reference Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Carracas Unit 21A 1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan 3	Offset TVD Reference:	Offset Datum

Offset Design: Carracas Unit 21A No. 15 - Carracas Unit 21A No. 15 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 324-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	3,702.49	3,684.01	3,683.49	36.30	96.28	-78.23	7.06	72.01	1,761.72	1,658.75	102.97	17.108	
5,200.00	3,700.04	3,681.56	3,681.04	38.10	96.22	-77.58	7.06	72.01	1,861.05	1,758.21	102.84	18.097	
5,300.00	3,697.59	3,679.12	3,678.59	39.92	96.17	-76.93	7.06	72.01	1,960.44	1,857.72	102.71	19.087	
5,400.00	3,695.15	3,676.67	3,676.15	41.76	96.11	-76.29	7.06	72.01	2,059.88	1,957.28	102.60	20.077	
5,500.00	3,692.70	3,674.22	3,673.70	43.60	96.06	-75.64	7.06	72.01	2,159.38	2,056.88	102.49	21.068	
5,600.00	3,690.25	3,671.78	3,671.25	45.46	96.01	-75.01	7.06	72.01	2,258.91	2,156.51	102.40	22.060	
5,700.00	3,687.81	3,669.33	3,668.81	47.33	95.95	-74.37	7.06	72.01	2,358.49	2,256.17	102.31	23.051	
5,800.00	3,685.36	3,666.88	3,666.36	49.21	95.90	-73.74	7.06	72.01	2,458.09	2,355.85	102.24	24.043	
5,900.00	3,682.91	3,664.44	3,663.91	51.10	95.84	-73.11	7.06	72.01	2,557.72	2,455.56	102.16	25.036	
6,000.00	3,680.46	3,661.99	3,661.46	52.99	95.79	-72.49	7.06	72.01	2,657.38	2,555.29	102.10	26.028	
6,100.00	3,678.02	3,659.54	3,659.02	54.90	95.73	-71.87	7.06	72.01	2,757.07	2,655.03	102.04	27.021	
6,200.00	3,675.57	3,657.10	3,656.57	56.80	95.68	-71.26	7.06	72.01	2,856.77	2,754.79	101.98	28.013	
6,300.00	3,673.12	3,654.65	3,654.12	58.72	95.62	-70.65	7.06	72.01	2,956.49	2,854.56	101.93	29.006	
6,400.00	3,670.68	3,652.20	3,651.68	60.63	95.57	-70.05	7.06	72.01	3,056.22	2,954.34	101.88	29.999	
6,500.00	3,668.23	3,649.76	3,649.23	62.56	95.51	-69.45	7.06	72.01	3,155.97	3,054.14	101.83	30.991	
6,600.00	3,665.78	3,647.31	3,646.78	64.48	95.46	-68.85	7.06	72.01	3,255.74	3,153.95	101.79	31.984	
6,700.00	3,663.34	3,644.86	3,644.34	66.41	95.41	-68.26	7.06	72.01	3,355.51	3,253.76	101.76	32.976	
6,800.00	3,660.89	3,642.42	3,641.89	68.34	95.35	-67.67	7.06	72.01	3,455.30	3,353.58	101.72	33.969	
6,900.00	3,658.44	3,639.97	3,639.44	70.28	95.30	-67.09	7.06	72.01	3,555.10	3,453.41	101.69	34.961	
7,000.00	3,656.00	3,637.52	3,637.00	72.22	95.24	-66.52	7.06	72.01	3,654.91	3,553.25	101.66	35.952	
7,100.00	3,653.55	3,635.08	3,634.55	74.16	95.19	-65.95	7.06	72.01	3,754.72	3,653.09	101.63	36.944	
7,200.00	3,651.10	3,632.63	3,632.10	76.10	95.13	-65.38	7.06	72.01	3,854.55	3,752.94	101.61	37.935	
7,300.00	3,648.66	3,630.18	3,629.66	78.05	95.08	-64.82	7.06	72.01	3,954.38	3,852.79	101.59	38.926	
7,400.00	3,646.21	3,627.74	3,627.21	80.00	95.02	-64.26	7.06	72.01	4,054.22	3,952.65	101.57	39.917	
7,500.00	3,643.76	3,625.29	3,624.76	81.95	94.97	-63.71	7.06	72.01	4,154.06	4,052.52	101.55	40.907	
7,600.00	3,641.32	3,622.84	3,622.32	83.90	94.91	-63.17	7.06	72.01	4,253.91	4,152.38	101.53	41.897	
7,700.00	3,638.87	3,620.40	3,619.87	85.85	94.86	-62.63	7.06	72.01	4,353.77	4,252.25	101.52	42.887	
7,800.00	3,636.42	3,617.95	3,617.42	87.81	94.81	-62.09	7.06	72.01	4,453.63	4,352.13	101.50	43.876	
7,858.15	3,635.00	3,616.53	3,616.00	88.94	94.77	-61.78	7.06	72.01	4,511.71	4,410.21	101.50	44.451	

Legacy Directional Anticollision Report



Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Reference Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Carracas Unit 21A 1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan 3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL: 7064' + 18' KB @ 7082.00usft

Offset Depths are relative to Offset Datum

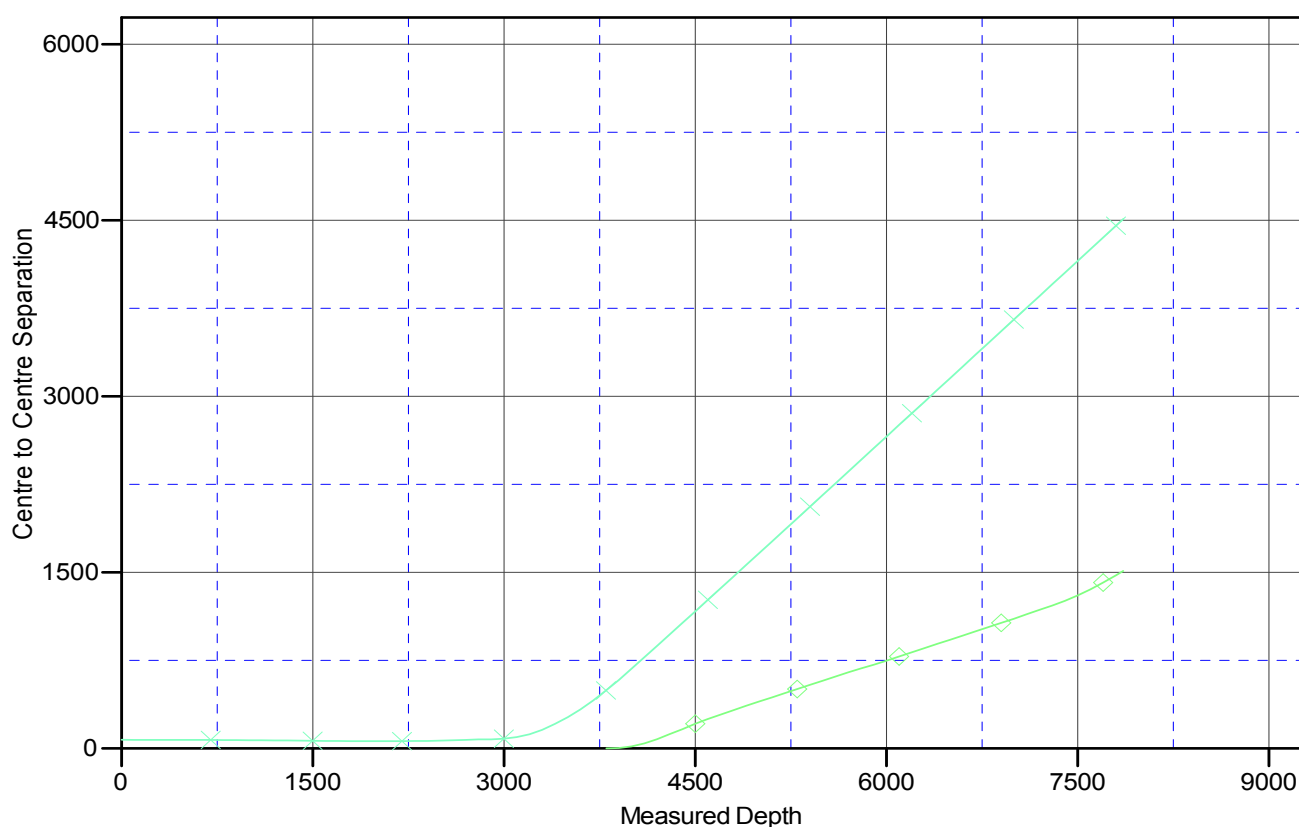
Central Meridian is -107.833334

Coordinates are relative to: Carracas Unit 21A 1

Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 30

Grid Convergence at Surface is: 0.28°

Ladder Plot



LEGEND

◆ Carracas Unit 21A 1, OH, OH V0
 ✕ Carracas Unit 21A No. 15, OH, OH V0

Legacy Directional Anticollision Report

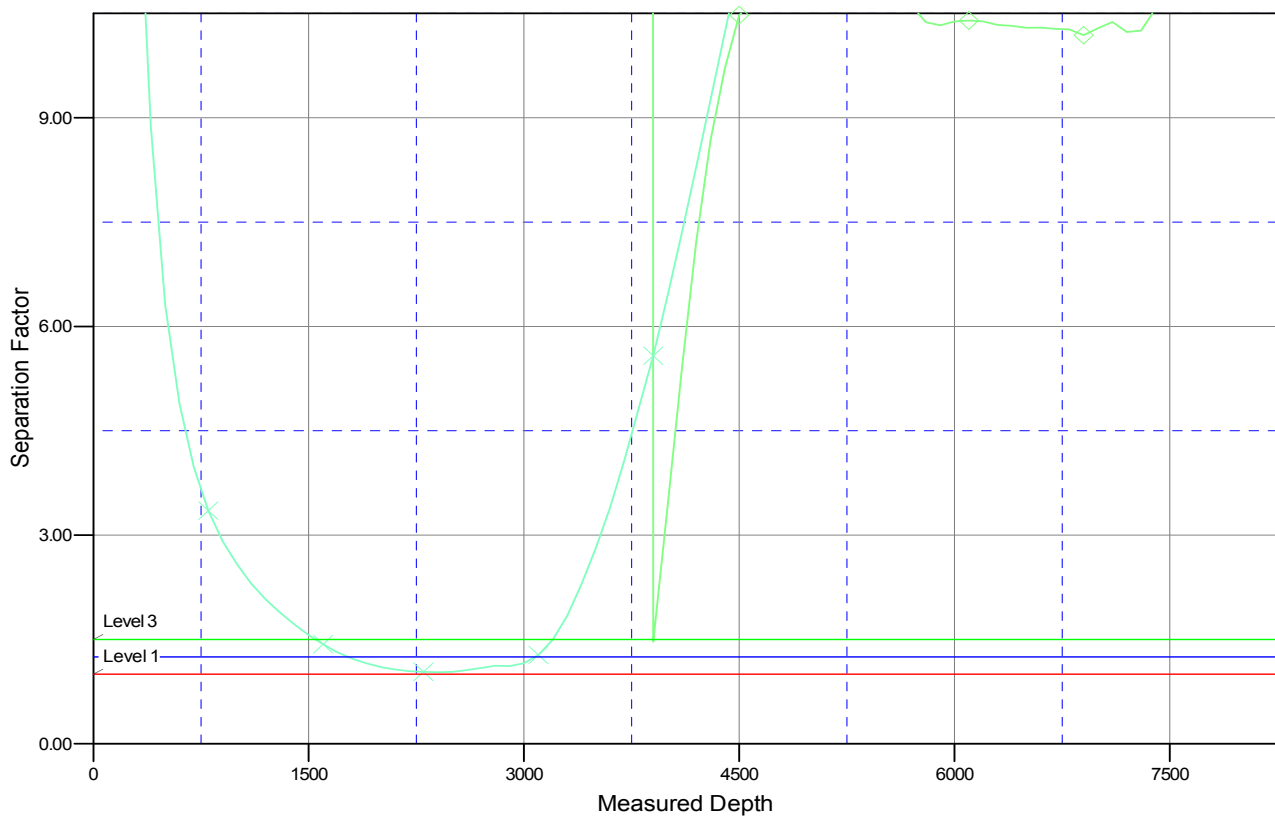


Company:	MorningStar Partners	Local Co-ordinate Reference:	Well Carracas Unit 21A 1
Project:	Rio Arriba County, NM	TVD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Reference Site:	Carracas Unit 21A 1	MD Reference:	GL: 7064' + 18' KB @ 7082.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Carracas Unit 21A 1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan 3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL: 7064' + 18' KB @ 7082.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833334

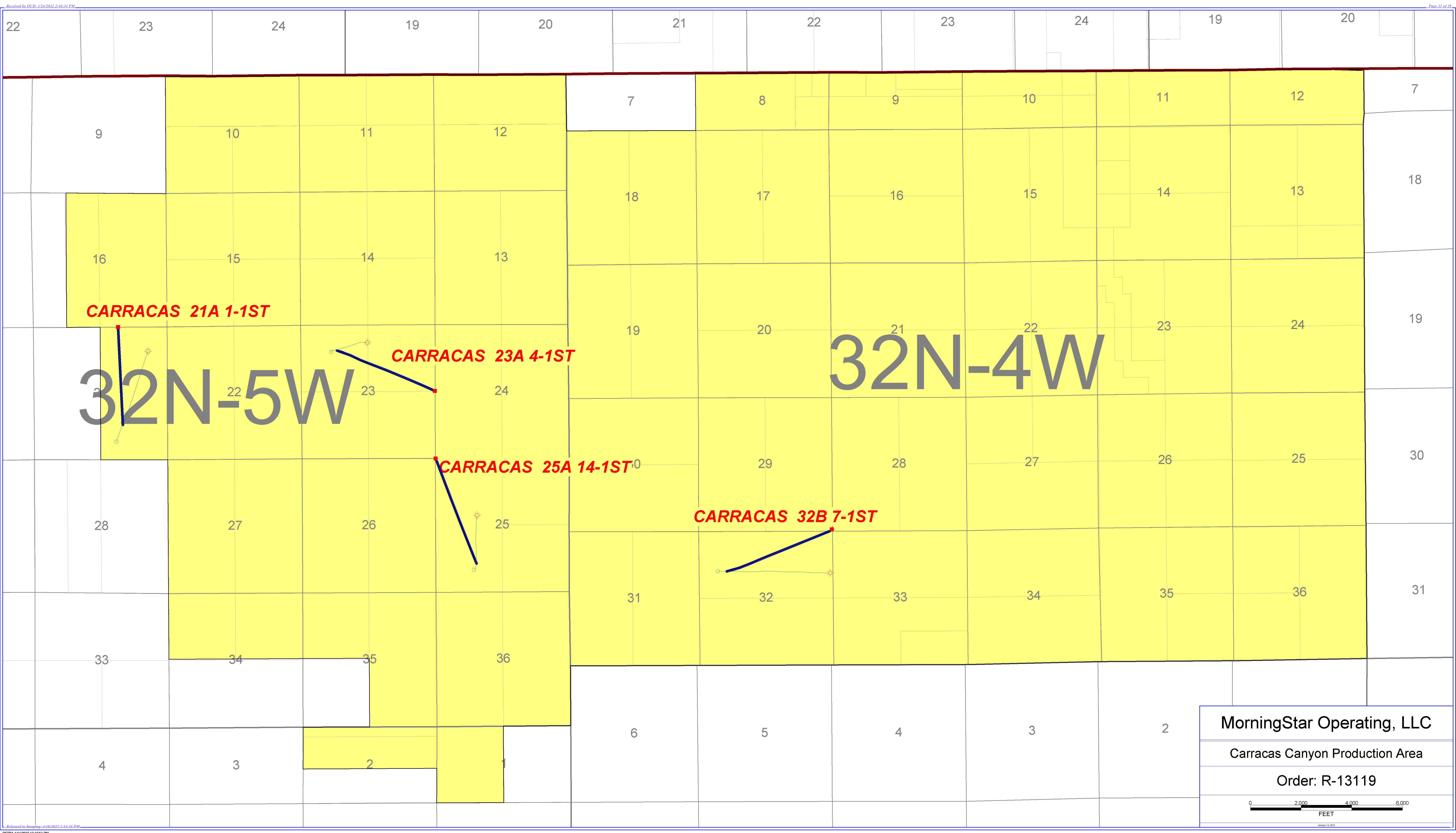
Coordinates are relative to: Carracas Unit 21A 1
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 30
 Grid Convergence at Surface is: 0.28°

Separation Factor Plot



LEGEND

◆ Carracas Unit 21A 1, OH, OH V0
 ✕ Carracas Unit 21A No. 15, OH, OH V0



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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: MORNINGSTAR OPERATING LLC **OGRID:** 330132 **Date:** 01 / 21 / 22

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
CARRACAS 21A1	30-039-30167	O 21 32N 5W	698 FSL 2020 FEL	0	1500	40

IV. Central Delivery Point Name: Carracas Gathering System [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
CARRACAS 21A1	30-039-30167	09/30/2008		04/20/2022	SWAB 4/20/22	04/21/2022

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

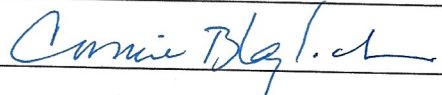
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	CONNIE BLAYLOCK
Title:	REGULATORY ANALYST
E-mail Address:	cblaylock@mspartners.com
Date:	01/21/2022
Phone:	817-334-7882
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

Surface facilities for the well are located on site. Process equipment includes a 2ph separator and water tanks. Vessels are sized based on historical and predicted well performance and provide adequate time for separation. Natural gas will be sold to the sales pipeline and only vented during emergency/non-scheduled issues. Natural gas is the sole product; consequently, there will every effort to minimize waste.

VII. Operational Practices: Attach a complete description of the action Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

- **Drilling Operations:** Any natural gas produced during drilling operations will be combusted with a flare line. A properly sized flare stack will be located a minimum of 100 feet from the nearest surface hole location. If flaring isn't possible or poses a risk, Operator will vent natural gas to avoid any safety or environmental risks and report natural gas.
- **Completion Operations:** There is no frac or flowback operations planned for this recompletion. All natural gas production of sufficient pressure will be turned to separation facilities and gathering pipeline for sales.
- **Production Operations:** Efforts will be made to minimize waste. Process equipment (separators and tanks) is designed for efficient separation and routing produced gas to the sales pipeline. Equipment will be properly maintained with routine inspections and preventative maintenance. Weekly AVOs will be performed at facilities.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- Best management practices are used to minimize venting and flaring during downhole operations.
- Flaring will be used in lieu of venting when feasible.
- Adequate well control during completion operations will be employed to minimize oil and gas production.
- Tanks and vessels are isolated from their respective facilities prior to inspection, maintenance, and repairs.
- The preventive maintenance program includes weekly AVO inspections, identification of failures or malfunctions, and repairs as needed.
- Coordinate with third-party gathering and sales operators to minimize downtime and the need for venting/flaring during downstream pipeline and gas plant events.

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

COMMENTS

Action 74789

COMMENTS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 74789
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO review 1/27/2022	1/27/2022

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Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 74789
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 hours prior to beginning operations	4/18/2022
kpickford	Will require an As Drilled C-102 and directional survey to be submitted with the C-104 Packet.	4/18/2022