Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

Form C-101 August 1, 2011 Permit 398337

	me and Address						2	. OGRID Number		
	itas Permian Ope i 17th Street	rating, LLC						332195		
	o 17th Street over, CO 80202						3	. API Number 30-025-55333		
4. Property Co	de '810		5. Property Name Cosmo K F	ee			6	. Well No. 151H		
				7. \$	Surface Location					
JL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
G	33	24	IS 35E	G	2377	N	177	75 E		Lea
				8. Propose	d Bottom Hole Loca	tion				
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
C	20	24	250		1225	NI.	109	o		100

9. Pool Information

WC-025 G-07 S243517D;MIDDLE BONE SP 98294

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		Private	3289
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	18130	3rd Bone Spring Carbonate		1/1/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

⊠ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

			21111000000 0001118	g and comoner regram		
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	11.75	47	901	499	0
Int1	10.625	8.625	32	5080	517	0
Prod	7.875	5.5	20	18130	1337	4580

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3500	
Blind	5000	5000	
Double Ram	5000	5000	

knowledge and b I hereby certify th or recompletion of	velief. nat no additives containing PFAS ch of this well.	s true and complete to the best of my emicals will be added to the completion NMAC and/or 19.15.14.9 (B) NMAC		OIL CONSERVA	TION DIVISION
Printed Name:	Electronically filed by Nathan S E	Bennett	Approved By:	Jeffrey Harrison	
Title:	Director, Permitting & Compliand	ce	Title:	Petroleum Specialist III	
Email Address:	nbennett@civiresources.com		Approved Date:	10/8/2025	Expiration Date: 10/8/2027
Date:	9/17/2025	Phone: 303-312-8166	Conditions of Appr	roval Attached	

<u>C-102</u>	CD. 7/1///	2023 7.43.			State of New				Revis	ed July 9, 2024
Submit Electronic				*		l Resources		nt		• .
Via OCD Permitt	ting		(OIL CO	NSERVAT	ION DIVIS	SION		Initial Submittal	
								Submittal Type:	Amended Report	
								1750.	As Drilled	
		V	ELL LC	CATIO	N AND AC	REAGE DE	EDICATIO	N PLAT	•	
API Number			Pool Code		Pool Na	ame			D C	
30-025-5	55333		98294	8288	W	C-025 G-07	S243517	3533G; Middl D;MIDDLE	e Bone Sp. BONE SPRIN	IG
Property Code			Property Name					,	Well Number	
337810					COSM	O K FEE				151H
OGRID No.	332195		Operator Name	CIVITA	AS PERMIAN	N OPERATIN	IG. LLC		Ground Level Elev	ation 3289'
Surface Owner:						Mineral Owner:	-	oal Federal		
					G 6					
UL or lot no.	Section	Township	Range	Lot Idn	Surface Feet from the N/S	Location Feet from the E/W	Latitud	e I	Longitude	County
		· •							· ·	·
G	33	24-S	35-E	-	2377' N	1775' E	N 32.174	W COUN	03.3696532	LEA
UL or lot no.	Section	Township	Range	Lot Idn	Bottom Ho Feet from the N/S	le Location Feet from the E/W	Latitud	<u> </u>	Longitude	County
		1							· ·	·
G	28	24-S	35-E	-	1325' N	1980' E	N 32.192	1132 W	03.3703298	LEA
Dedicated Acres	Infill or Defi	ining Well Defin	ing Wall ADI			Overlapping Spacing	Unit (V/N)	Consolida	tad Coda	
200	Infill _)-025-44	060		Overrapping spacing	; Ollit (1/IN)	Collsolida	ned Code	
		1-50	J-U23-44	909			-		-	
Order Numbers			-			Well Setbacks are un	der Common Own	ership: Yes N	lo	
					Kick Off P	oint (KOP)				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitud	e	Longitude	County
G	33	24-S	35-E	-	2541' N	1980' E	N 32.174	2574 W 1	03.3703139	LEA
					First Take I	Point (FTP)				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitud	e	Longitude	County
G	33	24-S	35-E	_	2541' N	1980' E	N 32.174	2574 W 1	03.3703139	LEA
							-			
*** 1		m 1:		T	Last Take I	<u> </u>	¥		*	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitud		Longitude	County
G	28	24-S	35-E	-	1420' N	1980' E	N 32.191	8520 W 1	03.3703308	LEA
Unitized Area or A	rea of Uniform I	ntrest		Spacing Unity	Type	al Vertical	Gro	und Floor Elevation		
									A STATE OF THE PARTY OF THE PAR	
OPERATO	OR CERTIF	FICATION				SURVEYOR	S CERTIFIC	CATION	munnini.	11111
best of my kn	iowledge and	belief, and, if	the well is a	vertical or	complete to the directional well,	I hereby certify		ocation shown	MON DON	INGUIL
in the land in	ncluding the	proposed bottor	n hole locatior	ı or has a ri	nineral interest ght to drill this rking interest	on this plat wa actual surveys	made by me or	under my	E & W WEX	() () () () () () () ()
or unleased m	ineral interes	st, or to a volv	intary pooling		r a compulsory	supervision, and correct to the b		is true and		X \) \[\]
pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has								24508		
unleased mine	eral interest i		in the target	pool or forme	nterest or ution) in which d a compulsory				the state of the s	1 /3 1
pooling order			will be locate	a or ootarne	л и сотрыготу				THESO.	CURVEILIN
d h	(Da)		9/15/2	2025				7/20/2021	24508 24508 24508 5 10:48:14 AM	minn.
Signature	W. T.		Date			Signature and Seal of	of Professional Surv	reyor Da	te	
-	y Ota									
Print Name						Certificate Number	Da	ite of Survey		
	aota@fiel	dinghillllc.	com					10/08/2022		
E-mail Address	E-mail Address									

<u>C-102</u>	Energy	, Mine	State of Nerals & Natura		es Departr	nent		Revised July 9, 2024				
Submit Electronically Via OCD Permitting			ONSERVA					XInitial Submittal				
							Submittal Type:	Amended Report				
							Турс.	As Drilled				
Property Name and Well Number	Property Name and Well Number COSMO K FEE 151H											
SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X=839505 Y=428629 LAT.: N 32.1747085 LONG.: W 103.3696532 NAD 1927 X=798319 Y=428570 LAT.: N 32.1745825 LONG.: W 103.3691857 2377' FNL 1775' FEL KICK OFF POINT (KOP)/ FIRST TAKE POINT (FTP) NEW MEXICO EAST NAD 1983 X=839302 Y=428463 LAT.: N 32.1742574 LONG.: W 103.3703139 NAD 1927 X=798116 Y=428404 LAT.: N 32.1741314 LONG.: W 103.3698463 2541' FNL 1980' FEL	$-\frac{20}{29}$	21 28 28 33	X = 838583.94 — 100' Y = 434958.19 : AZ = 356' 95.0 : Y = 430997.79	100'	USA NMNM 138893 28 33 -457' -1775' -1780' 661' AZ = 230.73° 262.1'	22	ВОТ	AST TAKE POINT (LTP) NEW MEXICO EAST NAD 1983 X=839240 Y=434864 LAT.: N 32.1918520 LONG.: W 103.3703308 NAD 1927 X=798054 Y=434805 LAT.: N 32.1917261 LONG.: W 103.3698623 1420' FNL 1980' FEL FOM HOLE LOCATION (BHL) NEW MEXICO EAST NAD 1983 X=839239 Y=434959 LAT.: N 32.1921132 LONG.: W 103.3703298 NAD 1927 X=798053 Y=434900 LAT.: N 32.1919873 LONG.: W 103.3698613 1325' FNL 1980' FEL				
	32	33	NMNM 138894	 —	X = 839964.61 Y = 428369.29	 34	I hereby plat was made by same is 05/02/	certify that the well location shown on this plotted from field notes of actual surveys me or under my supervision, and that the true and correct to the best of my belief. 2025				
Released to Imaging: 10/8/2025 10	5	4	T-24-S, R-35-E	ı	4	+		and Seal of Professional Surveyor: DOMNO DOMNO AND DOMNO AND DOMNO DOMNO AND DOMNO AND DOMNO DOMNO DOMNO SURVEY TO SURVEY				

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

Form APD Comments

Permit 398337

PERMIT COMMENTS

Operator Name and Address:	API Number:
Civitas Permian Operating, LLC [332195]	30-025-55333
555 17th Street	Well:
Denver, CO 80202	Cosmo K Fee #151H

Created By	Comment	Comment Date
jeffrey.harrison	Infill to 30-025-44969.	10/8/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information

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

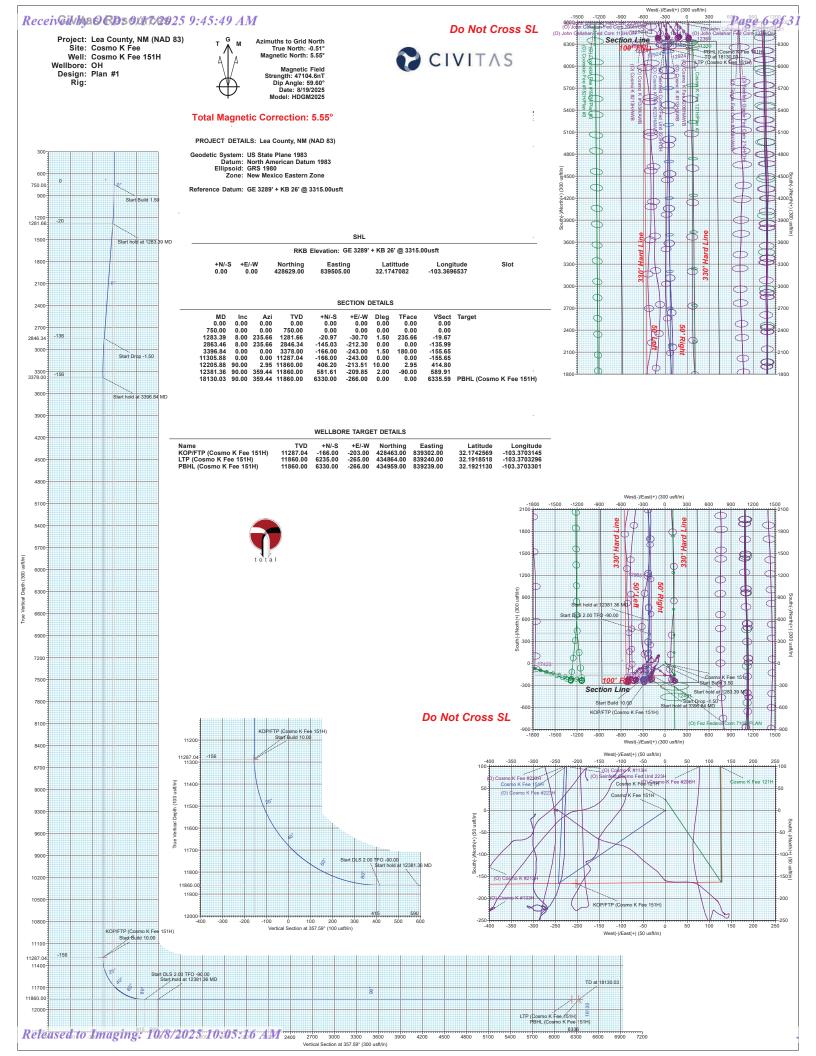
Form APD Conditions

Permit 398337

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Civitas Permian Operating, LLC [332195]	30-025-55333
555 17th Street	Well:
Denver, CO 80202	Cosmo K Fee #151H

OCD Reviewer	Condition
	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.



Civitas Resources

Lea County, NM (NAD 83) Cosmo K Fee Cosmo K Fee 151H

OH

Plan: Plan #1



Standard Plan Report

19 August, 2025

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION

All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

8/19/2025 2:23:44PM Page 1

Page 8 of 31

Total Directional

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee

Well: Cosmo K Fee 151H
Wellbore: OH

Design: Plan #1

Local Co-ordinate Reference: Well Cosmo K Fee 151H

TVD Reference: GE 3289' + KB 26' @ 3315.00usft **MD Reference:** GE 3289' + KB 26' @ 3315.00usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: .Total Directional Production DB

Project Lea County, NM (NAD 83)

Map System: US State Plane 1983

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Cosmo K Fee

 Site Position:
 Northing:
 428,654.00 usft
 Latitude:
 32.1747769

 From:
 Map
 Easting:
 839,505.00 usft
 Longitude:
 -103.3696529

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

Well Cosmo K Fee 151H

 Well Position
 +N/-S
 0.00 usft
 Northing:
 428,629.00 usft
 Latitude:
 32.1747082

 +E/-W
 0.00 usft
 Easting:
 839,505.00 usft
 Longitude:
 -103.3696536

Position Uncertainty 0.00 usft Wellhead Elevation: usfl Ground Level: 3,289.00 usfl

Grid Convergence: 0.51 °

Wellbore OH

Magnetics Model Name Sample Date Declination Dip Angle Field Strength
(°) (°) (nT)

HDGM2025 8/19/2025 6.07 59.60 47,104.60000000

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 0.00 357.59

Survey Tool Program Date 8/19/2025

From To

(usft) (usft) Survey (Wellbore) Tool Name Description

0.00 18,129.81 Plan #1 (OH) MWD+HRGM+SAG+FDIF OWSG MWD + HRGM + SAG + FDIR Correction

8/19/2025 2:23:44PM Page 2

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee

Well: Cosmo K Fee 151H
Wellbore: OH

Design: Plan #1

Planned Survey

Local Co-ordinate Reference: Well Cosmo K Fee 151H

TVD Reference: GE 3289' + KB 26' @ 3315.00usft **MD Reference:** GE 3289' + KB 26' @ 3315.00usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Plan Summa	ıry									
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	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,283.39	8.00	235.66	1,281.66	-20.97	-30.70	1.50	1.50	0.00	235.66	
2,863.46	8.00	235.66	2,846.34	-145.03	-212.30	0.00	0.00	0.00	0.00	
3,396.84	0.00	0.00	3,378.00	-166.00	-243.00	1.50	-1.50	0.00	180.00	
11,305.88	0.00	0.00	11,287.04	-166.00	-243.00	0.00	0.00	0.00	0.00	
12,205.88	90.00	2.95	11,860.00	406.20	-213.51	10.00	10.00	0.00	2.95	
12,381.36	90.00	359.44	11,860.00	581.61	-209.85	2.00	0.00	-2.00	-90.00	
18,130.03	90.00	359.44	11,860.00	6,330.00	-266.00	0.00	0.00	0.00	0.00 PI	BHL (Cosmo K Fe

	•												_
Measured Depth	INC	AZI	Vertical Depth	Local Coo +N/-S	rdinates +E/-W	Map Coor Northing	dinates Easting	Geo Coord Latitude	inates Longituge	Vertical Section		Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(°)		(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00	0.00	0.00	0.00
								00.4747000	400 0000500				
500.00	0.00	0.00	500.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536		0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00		0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00		0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	428,629.00	839,505.00	32.1747082	-103.3696536	0.00		0.00	0.00
800.00	0.75	235.66	800.00	-0.18	-0.27	428,628.82	839,504.73	32.1747077	-103.3696545	-0.17	1.50	1.50	0.00
900.00	2.25	235.66	899.96	-1.66	-2.43	428,627.34	839,502.57	32.1747037	-103.3696616	-1.56	1.50	1.50	0.00
1,000.00	3.75	235.66	999.82	-4.61	-6.75	428,624.39	839,498.25	32.1746957	-103.3696756	-4.33	1.50	1.50	0.00
1,100.00	5.25	235.66	1,099.51	-9.04	-13.23	428,619.96	839,491.77	32.1746837	-103.3696967	-8.48	1.50	1.50	0.00
1,200.00	6.75	235.66	1,198.96	-14.93	-21.86	428,614.07	839,483.14	32.1746677	-103.3697247	-14.00	1.50	1.50	0.00
1,283.39	8.00	235.66	1,281.66	-20.97	-30.70	428,608.03	839,474.30	32.1746513	-103.3697535	-19.67	1.50	1.50	0.00
1,300.00	8.00	235.66	1,298.11	-22.28	-32.61	428,606.72	839,472.39	32.1746478	-103.3697597	-20.89	0.00	0.00	0.00
1,400.00	8.00	235.66	1,397.13	-30.13	-44.10	428,598.87	839,460.90	32.1746265	-103.3697970	-28.25	0.00	0.00	0.00
1,500.00	8.00	235.66	1,496.16	-37.98	-55.60	428,591.02	839,449.40	32.1746052	-103.3698344	-35.61	0.00	0.00	0.00
1,600.00	8.00	235.66	1,595.19	-45.83	-67.09	428,583.17	839,437.91	32.1745839	-103.3698718	-42.97	0.00	0.00	0.00
1,700.00	8.00	235.66	1,694.21	-53.68	-78.58	428,575.32	839,426.42	32.1745626	-103.3699091	-50.34	0.00	0.00	0.00
4 000 00	0.00	005.00	4 700 04	04.50	00.00	400 507 47	000 444 00	32.1745413	-103.3699465	F7 70	0.00	0.00	0.00
1,800.00	8.00	235.66	1,793.24		-90.08	428,567.47	839,414.92				0.00	0.00	0.00
1,900.00	8.00	235.66	1,892.27	-69.38	-101.57	428,559.62	839,403.43	32.1745200	-103.3699839	-65.06		0.00	0.00
2,000.00	8.00	235.66	1,991.29	-77.24	-113.06	428,551.76	839,391.94	32.1744987	-103.3700213		0.00	0.00	0.00
2,100.00	8.00	235.66	2,090.32		-124.55	428,543.91	839,380.45	32.1744774	-103.3700586	-79.78		0.00	0.00
2,200.00	8.00	235.66	2,189.35	-92.94	-136.05	428,536.06	839,368.95	32.1744561	-103.3700960	-87.14	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee
Well: Cosmo K Fee 151H

Wellbore: OH

Design: Plan #1

Local Co-ordinate Reference: Well Cosmo K Fee 151H

TVD Reference: GE 3289' + KB 26' @ 3315.00usft
MD Reference: GE 3289' + KB 26' @ 3315.00usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Su	rvey												
Measured			Vertical	Local Coo	rdinates	Map Coor	dinates	Geo Coord	inates	Vertical	Dogleg	Build	Turn
Depth (usft)	INC (°)	AZI (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longituge (°)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
2,300.00	8.00	235.66	2,288.37	-100.79	-147.54	428,528.21	839,357.46	32.1744348	-103.3701334	-94.51	0.00	0.00	0.00
2,400.00	8.00	235.66	2,387.40	-108.64	-159.03	428,520.36	839,345.97	32.1744135	-103.3701707	-101.87		0.00	0.00
2,500.00	8.00	235.66	2,486.43	-116.49	-170.53	428,512.51	839,334.47	32.1743922	-103.3702081	-109.23		0.00	0.00
2,600.00	8.00	235.66	2,585.45	-124.34	-182.02	428,504.66	839,322.98	32.1743709	-103.3702455	-116.59		0.00	0.00
2,700.00	8.00	235.66	2,684.48	-132.19	-193.51	428,496.81	839,311.49	32.1743496	-103.3702828	-123.95		0.00	0.00
·							·						
2,800.00	8.00	235.66	2,783.51	-140.05	-205.01	428,488.95	839,299.99	32.1743284	-103.3703202	-131.31		0.00	0.00
2,863.46	8.00	235.66	2,846.34	-145.03	-212.30	428,483.97	839,292.70	32.1743148	-103.3703439	-135.99		0.00	0.00
2,900.00	7.45	235.66	2,882.56	-147.80	-216.36	428,481.20	839,288.64	32.1743073	-103.3703571		1.50		0.00
3,000.00	5.95	235.66	2,981.87	-154.38	-225.99	428,474.62	839,279.01	32.1742895	-103.3703884	-144.76			0.00
3,100.00	4.45	235.66	3,081.45	-159.50	-233.48	428,469.50	839,271.52	32.1742756	-103.3704128	-149.55	1.50	-1.50	0.00
3,200.00	2.95	235.66	3,181.24	-163.14	-238.81	428,465.86	839,266.19	32.1742657	-103.3704301	-152.97	1.50	-1.50	0.00
3,300.00	1.45	235.66	3,281.17	-165.31	-241.99	428,463.69	839,263.01	32.1742598	-103.3704404	-155.00	1.50	-1.50	0.00
3,396.84	0.00	0.00	3,378.00	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	1.50	-1.50	0.00
3,400.00	0.00	0.00	3,381.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
3,500.00	0.00	0.00	3,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
3,600.00	0.00	0.00	3,581.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
3,700.00	0.00	0.00	3,681.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
3,800.00	0.00	0.00	3,781.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
3,900.00	0.00	0.00	3,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
4,000.00	0.00	0.00	3,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
4,100.00	0.00	0.00	4,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
4,200.00	0.00	0.00	4,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
4,300.00	0.00	0.00	4,281.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
4,400.00	0.00	0.00	4,381.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
4,500.00	0.00	0.00	4,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
4,600.00	0.00	0.00	4,581.16	-166.00	-243.00	428,463.00	839.262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
,	0.00	0.00	,	-166.00	-243.00	•	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
4,700.00 4,800.00	0.00	0.00	4,681.16 4,781.16	-166.00	-243.00	428,463.00 428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
4,900.00	0.00	0.00	4,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
5,000.00	0.00	0.00	4,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65			
5,000.00	0.00	0.00	4,901.10	-100.00	-243.00	420,403.00	639,202.00	02.1742010	100.0704407	-100.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
5,200.00	0.00	0.00	5,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
5,300.00	0.00	0.00	5,281.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
5,400.00	0.00	0.00	5,381.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
5,500.00	0.00	0.00	5,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
5,600.00	0.00	0.00	5,581.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
5,700.00	0.00	0.00	5,681.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee Well: Cosmo K Fee 151H

Wellbore: ОН

Design:

Plan #1

Local Co-ordinate Reference: Well Cosmo K Fee 151H

GE 3289' + KB 26' @ 3315.00usft TVD Reference: GE 3289' + KB 26' @ 3315.00usft MD Reference:

North Reference:

Minimum Curvature **Survey Calculation Method:**

.Total Directional Production DB Database:

Money	Planned Su	rvey												
1.500.00 0.0	Depth			Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longituge	Section	Rate	Rate	Rate
6,000.00 0.00 0.00 5,881.16 -166.00 -243.00 428,463.00 839,262.00 32.174579 -103.3704437 -155.65 0.00 0.00 0.00 6,000.00 0.00 0.00 1.01 1.01 1.01 1.01 1.	5,800.00	0.00	0.00	5,781.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,100.00 0.00 0.00 6,081.16 -166.00 -243.00 428.463.00 839.262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 6,080.00 0.00 0.00 6,181.16 -166.00 -243.00 428.463.00 839.262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 6,080.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	5,900.00	0.00	0.00	5,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6.200.00 0.00 0.00 6.811.16 -166.00 -243.00 428.463.00 839.262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 6.300.00 0.00 0.00 0.00	6,000.00	0.00	0.00	5,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,300.00 0.00 0.00 6,281.16 -166.00 -243.00 428.463.00 839.262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,100.00	0.00	0.00	6,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,400.00 0.00 0.00 6,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.370437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,200.00	0.00	0.00	6,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,500.00 0.00 0.00 6,481.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 6,500.00 0.00 0.00 6,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 6,800.00 0.00 0.00 6,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,300.00	0.00	0.00	6,281.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,600.00 0.00 0.00 6,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 6,600.00 0.00 0.00 6,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,400.00	0.00	0.00	6,381.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,700.00 0.00 0.00 6,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 6,900.00 0.00 6,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,500.00	0.00	0.00	6,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,800.00 0.00 0.00 6,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,600.00	0.00	0.00	6,581.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
6,900.00 0.00 0.00 6,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,000.00 0.00 0.00 0.00	6,700.00	0.00	0.00	6,681.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,000.00 0.00 0.00 6,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,800.00	0.00	0.00	6,781.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,100.00 0.00 0.00 7,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,000.00 0.00 0.00 7,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,900.00	0.00	0.00	6,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,200.00 0.00 7,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,300.00 0.00 0.00 7,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,500.00 0.00 0.00 7,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,500.00 0.00 0.00 7,481.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7,000.00	0.00	0.00	6,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,300.00 0.00 0.00 7,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,500.00 0.00 0.00 7,481.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 7,000 0.00 0.00 7,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7,100.00	0.00	0.00	7,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,400.00 0.00 0.00 7,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,500.00 0.00 0.00 7,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 7,500.00 0.00 0.00 7,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 7,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7,200.00	0.00	0.00	7,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,500.00 0.00 7,481.16 -166.00 -243.00 428,463.00 383,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,600.00 0.00 0.00 7,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,700.00 0.00 0.00 7,681.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,900.00 0.00 0.00 7,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,000.00 0.00 7,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,100.00 0.00 8,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704	7,300.00	0.00	0.00	7,281.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,600.00 0.00 0.00 7,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,800.00 0.00 7,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,900.00 0.00 0.00 7,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,900.00 0.00 0.00 7,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 8,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,200.00 0.00 0.00 8,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,200.00 0.00 0.00 8,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,300.00 0.00 0.00 8,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,300.00 0.00 0.00 8,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,400.00 0.00 0.00 8,481.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 8,500.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 0.00	7,400.00	0.00	0.00	7,381.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,700.00 0.00 7,681.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,800.00 0.00 7,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 7,900.00 0.00 7,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,000.00 0.00 7,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,100.00 0.00 8,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,200.00 0.00 0.00 8,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 <t< td=""><td>7,500.00</td><td>0.00</td><td>0.00</td><td>7,481.16</td><td>-166.00</td><td>-243.00</td><td>428,463.00</td><td>839,262.00</td><td>32.1742579</td><td>-103.3704437</td><td>-155.65</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	7,500.00	0.00	0.00	7,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,800.00 0.00 0.00 7,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7,600.00	0.00	0.00	7,581.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
7,900.00 0.00 7,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,000.00 0.00 7,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,100.00 0.00 0.00 8,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,200.00 0.00 0.00 8,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,300.00 0.00 8,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,400.00 0.00 8,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -	7,700.00	0.00	0.00	7,681.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,000.00 0.00 0.00 7,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,300.00 0.00 0.00 8,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,400.00 0.00 0.00 8,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,481.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 8,500.00 0.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,800.00 0.00 0.00 8,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7,800.00	0.00	0.00	7,781.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,100.00 0.00 8,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,200.00 0.00 0.00 8,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,300.00 0.00 0.00 8,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,400.00 0.00 0.00 8,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,600.00 0.00 8,481.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,700.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,800.00 <td< td=""><td>7,900.00</td><td>0.00</td><td>0.00</td><td>7,881.16</td><td>-166.00</td><td>-243.00</td><td>428,463.00</td><td>839,262.00</td><td>32.1742579</td><td>-103.3704437</td><td>-155.65</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>	7,900.00	0.00	0.00	7,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,200.00 0.00 0.00 8,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,400.00 0.00 0.00 8,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8,000.00	0.00	0.00	7,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,300.00 0.00 0.00 8,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,500.00 0.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 8,700.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8,100.00	0.00	0.00	8,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,400.00 0.00 0.00 8,81.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,600.00 0.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,700.00 0.00 0.00 8,81.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,700.00 0.00 0.00 8,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,800.00 0.00 0.00 8,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,900.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 8,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 8,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 0.00	8,200.00	0.00	0.00	8,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,500.00 0.00 0.00 8,481.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,700.00 0.00 0.00 8,681.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,800.00 0.00 0.00 8,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,900.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,900.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 8,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 0.00	8,300.00	0.00	0.00	8,281.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,600.00 0.00 8,581.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,700.00 0.00 0.00 8,681.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,800.00 0.00 0.00 8,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,900.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 8,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,100.00 0.00 9,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,2	8,400.00	0.00	0.00	8,381.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,700.00 0.00 0.00 8,681.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 8,900.00 0.00 0.00 8,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 8,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 0.00	8,500.00	0.00	0.00	8,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,800.00 0.00 0.00 8,781.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 0.00	8,600.00	0.00	0.00	8,581.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
8,900.00 0.00 0.00 8,881.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,000.00 0.00 0.00 9,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,200.00 0.00 0.00 9,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 0.00 9,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 0.00 9,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,400.00 0.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 0.00	8,700.00	0.00	0.00	8,681.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,000.00 0.00 8,981.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,100.00 0.00 0.00 9,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,200.00 0.00 0.00 9,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 0.00 9,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,400.00 0.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00	8,800.00	0.00	0.00	8,781.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,100.00 0.00 9,081.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 0.00 9,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 0.00 9,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,400.00 0.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00	8,900.00	0.00	0.00	8,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,200.00 0.00 9,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,400.00 0.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,400.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	9,000.00	0.00	0.00	8,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,200.00 0.00 9,181.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,300.00 0.00 9,281.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00 9,400.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00	9,100.00	0.00	0.00	9,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,300.00 0.00 9,281.16 -166.00 -243.00 428,463.00 839,262.00 ^{32.1742579} -103.3704437 -155.65 0.00 0.00 9,400.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 ^{32.1742579} -103.3704437 -155.65 0.00 0.00 0.00	9,200.00	0.00	0.00	9,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	
9,400.00 0.00 0.00 9,381.16 -166.00 -243.00 428,463.00 839,262.00 32.1742579 -103.3704437 -155.65 0.00 0.00 0.00	9,300.00	0.00	0.00	9,281.16	-166.00		428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	
		0.00	0.00	9,381.16	-166.00				32.1742579	-103.3704437			0.00	
1,11111 1119 0100 0,101110 100100 100,100100 000,100100 100100 100100 0.00 0.	9,500.00	0.00	0.00	9,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee Well: Cosmo K Fee 151H

Wellbore:

ОН

Plan #1 Design:

Local Co-ordinate Reference: Well Cosmo K Fee 151H

GE 3289' + KB 26' @ 3315.00usft TVD Reference: GE 3289' + KB 26' @ 3315.00usft MD Reference:

North Reference:

Minimum Curvature **Survey Calculation Method:**

.Total Directional Production DB Database:

Planned Su	rvey												
Measured			Vertical	Local Coo	rdinates	Map Coor	dinates	Geo Coord	inates	Vertical	Dogleg	Build	Turn
Depth	INC	AZI	Depth (veft)	+N/-S	+E/-W	Northing	Easting	Latitude	Longituge	Section		Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(°)	(usft)	(°/100usft)	(7100ustt)	(*/100ustt)
9,600.00	0.00	0.00	9,581.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,700.00	0.00	0.00	9,681.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,800.00	0.00	0.00	9,781.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
9,900.00	0.00	0.00	9,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
10,000.00	0.00	0.00	9,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
10,100.00	0.00	0.00	10,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
10,200.00	0.00		10,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
10,300.00	0.00		10,281.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
10,400.00	0.00		10,381.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
10,500.00	0.00		10,481.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65		0.00	0.00
10,000.00	0.00	0.00	10, 10 1.10	100.00	210.00	120, 100.00	000,202.00			100.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,581.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
10,700.00	0.00	0.00	10,681.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
10,800.00	0.00	0.00	10,781.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
10,900.00	0.00	0.00	10,881.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
11,000.00	0.00	0.00	10,981.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
11,100.00	0.00	0.00	11,081.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
11,200.00	0.00	0.00	11,181.16	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
11,305.88	0.00	0.00	11,287.04	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
11,305.96	0.00	2.95	11,287.12	-166.00	-243.00	428,463.00	839,262.00	32.1742579	-103.3704437	-155.65	0.00	0.00	0.00
КО	P/FTP (C	osmo K	Fee 151H)										
11,350.00	4.41	2.95	11,331.11	-164.30	-242.91	428,464.70	839,262.09	32.1742626	-103.3704434	-153.96	10.02	10.02	0.00
11,400.00	9.41	2.95	11,380.73	-158.30	-242.60	428,470.70	839,262.40	32.1742791	-103.3704422	-147.97	10.00	10.00	0.00
11,450.00	14.41	2.95	11,429.64	-147.99	-242.07	428,481.01	839,262.93	32.1743074	-103.3704402	-137.70	10.00	10.00	0.00
11,500.00	19.41	2.95	11,477.46	-133.47	-241.32	428,495.53	839,263.68	32.1743473	-103.3704374	-123.22	10.00	10.00	0.00
11,550.00	24.41	2.95	11,523.84	-114.85	-240.36	428,514.15	839,264.64	32.1743985	-103.3704337	-104.65	10.00	10.00	0.00
11,600.00	29.41	2.95	11,568.41	-92.25	-239.20	428,536.75	839,265.80	32.1744606	-103.3704293	-82.13	10.00	10.00	0.00
11,650.00	34.41	2.95	11,610.84	-65.86	-237.84	428,563.14	839,267.16	32.1745330	-103.3704242	-55.82	10.00	10.00	0.00
11,700.00	39.41	2.95	11,650.80	-35.88	-236.29	428,593.12	839,268.71	32.1746154	-103.3704183		10.00		0.00
11,750.00	44.41	2.95	11,688.00	-2.54	-234.58	428,626.46	839,270.42	32.1747070	-103.3704118	7.31	10.00	10.00	0.00
11,800.00	49.41		11,722.15	33.91	-232.70	428,662.91	839,272.30	32.1748072	-103.3704047		10.00		0.00
11,850.00	54.41		11,752.98	73.20	-230.67	428,702.20	839,274.33	32.1749151	-103.3703970		10.00		0.00
11,900.00	59.41	2.95	11,780.27	115.03	-228.52	428,744.03	839,276.48	32.1750300	-103.3703888	124.52	10.00	10.00	0.00
11,950.00	64.41		11,803.80	159.06	-226.25	428,788.06	839,278.75	32.1751510	-103.3703802		10.00		0.00
12,000.00	69.41		11,823.40	204.98	-223.88	428,833.98	839,281.12	32.1752771	-103.3703712		10.00		0.00
12,050.00	74.41		11,838.92	252.43	-221.44	428,881.43	839,283.56	32.1754075	-103.3703619		10.00		0.00
12,100.00	79.41		11,850.24	301.06	-218.93	428,930.06	839,286.07	32.1755411	-103.3703524		10.00		0.00
12,150.00	84.41	2.95	11,857.27	350.48	-216.38	428,979.48	839,288.62	32.1756769	-103.3703428	359.25	10.00	10.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee
Well: Cosmo K Fee 151H

Wellbore: OH

Design: Plan #1

Local Co-ordinate Reference: Well Cosmo K Fee 151H

TVD Reference: GE 3289' + KB 26' @ 3315.00usft
MD Reference: GE 3289' + KB 26' @ 3315.00usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Su	rvey												
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coo +N/-S (usft)	rdinates +E/-W (usft)	Map Coor Northing (usft)	dinates Easting (usft)	Geo Coord Latitude	inates Longituge (°)	Vertical Section (usft)	Rate	Build Rate (°/100usft)	Rate
12,200.00	89.41	2.95	11,859.97	400.32	-213.82	429,029.32	839,291.18	32.1758138	-103.3703330	408.95	10.00	10.00	0.00
12,205.88	90.00	2.95	11,860.00	406.20	-213.51	429,035.20	839,291.49	32.1758299	-103.3703319	414.80	10.00	10.00	0.00
12,300.00	90.00	1.07	11,860.00	500.25	-210.21	429,129.25	839,294.79	32.1760884	-103.3703185	508.64	2.00	0.00	-2.00
12,381.36	90.00	359.44	11,860.00	581.61	-209.85	429,210.61	839,295.15	32.1763120	-103.3703150	589.91	2.00	0.00	-2.00
12,400.00	90.00	359.44	11,860.00	600.25	-210.04	429,229.25	839,294.96	32.1763632	-103.3703150	608.54	0.00	0.00	0.00
12,500.00	90.00	359.44	11,860.00	700.24	-211.01	429,329.24	839,293.99	32.1766381	-103.3703153	708.49	0.00	0.00	0.00
12,600.00	90.00	359.44	11,860.00	800.24	-211.99	429,429.24	839,293.01	32.1769129	-103.3703156	808.43	0.00	0.00	0.00
12,700.00	90.00	359.44	11,860.00	900.23	-212.97	429,529.23	839,292.03	32.1771878	-103.3703158	908.38	0.00	0.00	0.00
12,800.00	90.00	359.44	11,860.00	1,000.23	-213.94	429,629.23	839,291.06	32.1774627	-103.3703161	1,008.33	0.00	0.00	0.00
12,900.00	90.00	359.44	11,860.00	1,100.22	-214.92	429,729.22	839,290.08	32.1777375	-103.3703164	1,108.28	0.00	0.00	0.00
13,000.00	90.00	359.44	11,860.00	1,200.22	-215.90	429,829.22	839,289.10	32.1780124	-103.3703166	1,208.23	0.00	0.00	0.00
13,100.00	90.00	359.44	11,860.00	1,300.21	-216.87	429,929.21	839,288.13	32.1782873	-103.3703169	1,308.17	0.00	0.00	0.00
13,200.00	90.00	359.44	11,860.00	1,400.21	-217.85	430,029.21	839,287.15	32.1785621	-103.3703171	1,408.12	0.00	0.00	0.00
13,300.00	90.00	359.44	11,860.00	1,500.21	-218.83	430,129.21	839,286.17	32.1788370	-103.3703174	1,508.07	0.00	0.00	0.00
13,400.00	90.00	359.44	11,860.00	1,600.20	-219.80	430,229.20	839,285.20	32.1791118	-103.3703177	1,608.02	0.00	0.00	0.00
13,500.00	90.00	359.44	11,860.00	1,700.20	-220.78	430,329.20	839,284.22	32.1793867	-103.3703179	1,707.97	0.00	0.00	0.00
13,600.00	90.00	359.44	11,860.00	1,800.19	-221.76	430,429.19	839,283.24	32.1796616	-103.3703182	1,807.91	0.00	0.00	0.00
13,700.00	90.00	359.44	11,860.00	1,900.19	-222.73	430,529.19	839,282.27	32.1799364	-103.3703185	1,907.86	0.00	0.00	0.00
13,800.00	90.00	359.44	11,860.00	2,000.18	-223.71	430,629.18	839,281.29	32.1802113	-103.3703187	2,007.81	0.00	0.00	0.00
13,900.00	90.00	359.44	11,860.00	2,100.18	-224.69	430,729.18	839,280.31	32.1804862	-103.3703190	2,107.76	0.00	0.00	0.00
14,000.00	90.00	359.44	11,860.00	2,200.17	-225.66	430,829.17	839,279.34	32.1807610	-103.3703193	2,207.71	0.00	0.00	0.00
14,100.00	90.00	359.44	11,860.00	2,300.17	-226.64	430,929.17	839,278.36	32.1810359	-103.3703195	2,307.65	0.00	0.00	0.00
14,200.00	90.00	359.44	11,860.00	2,400.16	-227.62	431,029.16	839,277.38	32.1813108	-103.3703198	2,407.60	0.00	0.00	0.00
14,300.00	90.00	359.44	11,860.00	2,500.16	-228.59	431,129.16	839,276.41	32.1815856	-103.3703200	2,507.55	0.00	0.00	0.00
14,400.00	90.00	359.44	11,860.00	2,600.15	-229.57	431,229.15	839,275.43	32.1818605	-103.3703203	2,607.50	0.00	0.00	0.00
14,500.00	90.00	359.44	11,860.00	2,700.15	-230.55	431,329.15	839,274.45	32.1821354	-103.3703206	2,707.45	0.00	0.00	0.00
14,600.00	90.00	359.44	11,860.00	2,800.14	-231.52	431,429.14	839,273.48	32.1824102	-103.3703208	2,807.39	0.00	0.00	0.00
14,700.00	90.00	359.44	11,860.00	2,900.14	-232.50	431,529.14	839,272.50	32.1826851	-103.3703211	2,907.34	0.00	0.00	0.00
14,800.00	90.00	359.44	11,860.00	3,000.13	-233.48	431,629.13	839,271.52	32.1829600	-103.3703214			0.00	0.00
14,900.00	90.00	359.44	11,860.00	3,100.13	-234.45	431,729.13	839,270.55	32.1832348	-103.3703216	3,107.24	0.00	0.00	0.00
15,000.00	90.00		11,860.00	•	-235.43	431,829.12	839,269.57	32.1835097	-103.3703219	3,207.19		0.00	0.00
15,100.00	90.00		11,860.00	•	-236.41	431,929.12	839,268.59	32.1837845	-103.3703221	3,307.13		0.00	0.00
15,200.00	90.00		11,860.00	3,400.11	-237.38	432,029.11	839,267.62	32.1840594	-103.3703224	3,407.08		0.00	0.00
15,300.00	90.00		11,860.00	3,500.11	-238.36	432,129.11	839,266.64	32.1843343	-103.3703227	3,507.03		0.00	0.00
15,400.00	90.00	359.44	11,860.00	3,600.11	-239.34	432,229.11	839,265.66	32.1846091	-103.3703229	3,606.98	0.00	0.00	0.00
15,500.00	90.00	359.44	11,860.00	3,700.10	-240.31	432,329.10	839,264.69	32.1848840	-103.3703232	3,706.93	0.00	0.00	0.00
15,600.00	90.00	359.44	11,860.00	3,800.10	-241.29	432,429.10	839,263.71	32.1851589	-103.3703235	3,806.88	0.00	0.00	0.00
15,700.00	90.00	359.44	11,860.00	3,900.09	-242.27	432,529.09	839,262.73	32.1854337	-103.3703237	3,906.82	0.00	0.00	0.00

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee
Well: Cosmo K Fee 151H

Wellbore: OH

Design: Plan #1

Local Co-ordinate Reference: Well Cosmo K Fee 151H

TVD Reference: GE 3289' + KB 26' @ 3315.00usft **MD Reference:** GE 3289' + KB 26' @ 3315.00usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Su	rvey												
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coo +N/-S (usft)	rdinates +E/-W (usft)	Map Coor Northing (usft)	dinates Easting (usft)	Geo Coordi Latitude (°)	inates Longituge (°)	Vertical Section (usft)		Rate	Turn Rate (°/100usft
15,800.00	90.00	359.44	11,860.00	4,000.09	-243.24	432,629.09	839,261.76	32.1857086	-103.3703240	4,006.77	0.00	0.00	0.00
15,900.00	90.00	359.44	11,860.00	4,100.08	-244.22	432,729.08	839,260.78	32.1859835	-103.3703243	4,106.72	0.00	0.00	0.00
16,000.00	90.00	359.44	11,860.00	4,200.08	-245.20	432,829.08	839,259.80	32.1862583	-103.3703245	4,206.67	0.00	0.00	0.00
16,100.00	90.00	359.44	11,860.00	4,300.07	-246.17	432,929.07	839,258.83	32.1865332	-103.3703248	4,306.62	0.00	0.00	0.00
16,200.00	90.00	359.44	11,860.00	4,400.07	-247.15	433,029.07	839,257.85	32.1868081	-103.3703250	4,406.56	0.00	0.00	0.00
16,300.00	90.00	359.44	11,860.00	4,500.06	-248.13	433,129.06	839,256.87	32.1870829	-103.3703253	4,506.51	0.00	0.00	0.00
16,400.00	90.00	359.44	11,860.00	4,600.06	-249.10	433,229.06	839,255.90	32.1873578	-103.3703256	4,606.46	0.00	0.00	0.00
16,500.00	90.00	359.44	11,860.00	4,700.05	-250.08	433,329.05	839,254.92	32.1876326	-103.3703258	4,706.41	0.00	0.00	0.00
16,600.00	90.00	359.44	11,860.00	4,800.05	-251.06	433,429.05	839,253.94	32.1879075	-103.3703261	4,806.36	0.00	0.00	0.00
16,700.00	90.00	359.44	11,860.00	4,900.04	-252.03	433,529.04	839,252.97	32.1881824	-103.3703264	4,906.30	0.00	0.00	0.0
16,800.00	90.00	359.44	11,860.00	5,000.04	-253.01	433,629.04	839,251.99	32.1884572	-103.3703266	5,006.25	0.00	0.00	0.00
16,900.00	90.00	359.44	11,860.00	5,100.03	-253.99	433,729.03	839,251.01	32.1887321	-103.3703269	5,106.20	0.00	0.00	0.0
17,000.00	90.00	359.44	11,860.00	5,200.03	-254.96	433,829.03	839,250.04	32.1890070	-103.3703271	5,206.15	0.00	0.00	0.0
17,100.00	90.00	359.44	11,860.00	5,300.02	-255.94	433,929.02	839,249.06	32.1892818	-103.3703274	5,306.10	0.00	0.00	0.0
17,200.00	90.00	359.44	11,860.00	5,400.02	-256.92	434,029.02	839,248.08	32.1895567	-103.3703277	5,406.04	0.00	0.00	0.0
17,300.00	90.00	359.44	11,860.00	5,500.01	-257.89	434,129.01	839,247.11	32.1898316	-103.3703279	5,505.99	0.00	0.00	0.0
17,400.00	90.00	359.44	11,860.00	5,600.01	-258.87	434,229.01	839,246.13	32.1901064	-103.3703282	5,605.94	0.00	0.00	0.0
17,500.00	90.00	359.44	11,860.00	5,700.00	-259.85	434,329.00	839,245.15	32.1903813	-103.3703285	5,705.89	0.00	0.00	0.0
17,600.00	90.00	359.44	11,860.00	5,800.00	-260.82	434,429.00	839,244.18	32.1906562	-103.3703287	5,805.84	0.00	0.00	0.0
17,700.00	90.00	359.44	11,860.00	5,900.00	-261.80	434,529.00	839,243.20	32.1909310	-103.3703290	5,905.78	0.00	0.00	0.0
17,800.00	90.00	359.44	11,860.00	5,999.99	-262.78	434,628.99	839,242.22	32.1912059	-103.3703292	6,005.73	0.00	0.00	0.00
17,900.00	90.00	359.44	11,860.00	6,099.99	-263.75	434,728.99	839,241.25	32.1914807	-103.3703295	6,105.68	0.00	0.00	0.0
18,000.00	90.00	359.44	11,860.00	6,199.98	-264.73	434,828.98	839,240.27	32.1917556	-103.3703298	6,205.63	0.00	0.00	0.0
18,035.02	90.00	359.44	11,860.00	6,235.00	-265.07	434,864.00	839,239.93	32.1918519	-103.3703299	6,240.63	0.00	0.00	0.0
LTF	(Cosmo	o K Fee 1	I51H)										
18,100.00	90.00	359.44	11,860.00	6,299.98	-265.71	434,928.98	839,239.29	32.1920305	-103.3703300	6,305.58	0.00	0.00	0.0
18,130.03	90.00		11,860.00	6,330.00	-266.00	434,959.00	839,239.00	32.1921130	-103.3703301	6,335.59	0.00	0.00	0.0
PBI	HL (Cosr	mo K Fee	e 151H)										

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Total Directional

Planned Survey Report



Company: Civitas Resources

Project: Lea County, NM (NAD 83)

Site: Cosmo K Fee

Well: Cosmo K Fee 151H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Cosmo K Fee 151H

TVD Reference: GE 3289' + KB 26' @ 3315.00usft **MD Reference:** GE 3289' + KB 26' @ 3315.00usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Design Targets													
Target Name - hit/miss target Dip - Shape	Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude				
KOP/FTP (Cosmo K F - plan misses target ce - Point	0.00 enter by 4		11,287.04 : 11305.88เ	-166.00 usft MD (1128	-203.00 37.04 TVD, -	428,463.00 -166.00 N, -243.0	839,302.00 0 E)	32.1742570	-103.3703145				
LTP (Cosmo K Fee 15 - plan misses target ce - Point	0.00 enter by 0		11,860.00 18035.02us	6,235.00 sft MD (11860	-265.00 0.00 TVD, 6	434,864.00 235.00 N, -265.07	839,240.00 7 E)	32.1918519	-103.3703296				
PBHL (Cosmo K Fee - plan hits target cente - Point	0.00 r	0.00	11,860.00	6,330.00	-266.00	434,959.00	839,239.00	32.1921130	-103.3703301				

Checked By:	Approved By:	Date:	
		<u> </u>	

Civitas Permian Operating LLC DRILLING AND OPERATIONS PLAN

	WELL N	AME & NUMBER:		Cosmo Fee 151H									
				_									
LOCA	ATION:	SECTION	33		TOWNSHIP	24-S		RANGE	35-E				
	_	LFA	COUNTY	_	NEW MEXICO								

Section 1:

GEOLOGICAL FORMATIONS

Name of Surface Formation: Permian Elevation: 3289 feet

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	517	517	2772	Anhydrite/Dolomite	Brine	No
Salado	926	926	2363	Halite	Brine	No
DMG/Bell Canyon	5211	5211	-1922	Sand	Hydrocarbon	No
Cherry Canyon	6134	6134	-2845	Sand	Hydrocarbon	No
Brushy Canyon	7650	7650	-4361	Sand	Hydrocarbon	No
Brushy Canyon Lwr	8796	8796	-5507	Sand	Hydrocarbon	No
Avalon Upr	8996	8996	-5707	Limestone/Shale	Hydrocarbon	Yes
Avalon Mid	9264	9264	-5975	Limestone	Hydrocarbon	Yes
Avalon Lwr	9685	9685	-6396	Limestone/Shale	Hydrocarbon	Yes
1st Bone Spring Sand	10163	10163	-6874	Sandstone	Hydrocarbon	Yes
2nd Bone Spring Carbonate	10338	10338	-7049	Shale/Limestone	Hydrocarbon	Yes
2nd Bone Spring Sand	10955	10955	-7666	Sandstone/Shale	Hydrocarbon	Yes
3rd Bone Spring Carbonate	11258	11258	-7969	Limestone/Shale	Hydrocarbon	Yes
3rd Bone Spring Shale	11433	11433	-8144	Limestone/Shale	Hydrocarbon	Yes
3rd Bone Spring Sand	11994	11994	-8705	Sandstone	Hydrocarbon	Yes

Section 2:

BLOWOUT PREVENTER TESTING PROCEDURE

BOP installed and tested before drilling which hole	Stack Size	MAASP (psi)	Min. Required WP	Туре	Test Pressure
				Annular	70% of rated working pressure
Int 1	13-5/8"	402	5M	Blind Ram	5M
				Double Pipe Ram	5M
				Annular	70% of rated working pressure
Production	13-5/8"	2266	5M	Blind Ram	5M
				Double Pipe Ram	5M

Variance Request:

1 Coflex Choke Line Variance requested to utilize a flexible choke line from the BOP to Choke Manifold (Manufacturers specification is available).

2 Break Testing Variance requested for Break testing of 5M BOPE, intermediate hole sections only.

3 Multibowl Variance requested to utilize a Cactus multibowl wellhead.

4 Offline Cementing Variance requested for offline cementing operations on all surface and intermediate casing strings set above the WCA formation. (see attached plan)

Testing Procedure:

The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate, and production hole sections will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see variance request).

No

Civitas Permian Operating LLC Drilling & Operations Plan - Page 2 of 3

Section 3:							CASIN	IG PROG	RAM								
String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Weight (lbs/ft)	Grade	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	14.75	11.75	0	901	-	901	3,289	2,388	47	J55	ВТС	1.13	1.15	BUOY	1.80	BUOY	1.80
Intermediate	10.625	8.625	0	5,080	-	5,061	3,289	(1,772)	32	HCL80	ВТС	1.13	1.15	BUOY	1.80	BUOY	1.80
Production	7.875	5.5	0	18,130	-	11,860	3,289	(8,571)	20	P110RY	GBCD	1.13	1.15	BUOY	1.80	BUOY	1.80
	All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Safety Factors will Meet or Exceed																

Casing Condition:NewCasing Standard:APITapered String?No

Is well located in critical Cave/Karst?

If yes, are there three strings cemented to surface?

Yes or No Is casing new? If used, attach certification as required in 43 CFR 3172. Yes Does casing meet API specifications? If no, attach casing specification sheet. Yes Is premium or uncommon casing planned? If yes attach casing specification sheet. No Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria) Yes Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? Yes Is well located within Capitan Reef? No If yes, does production casing cement tie back a minimum of 50' above the Reef? Is proposed well within the designated four string boundary? s well located in R-111-Q and SOPA? No Is the second string set 100' to 600' below the base of salt? Is well located in SOPA but not in R-111-Q? No If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing? s well located in high Cave/Karst? No If yes, are there two strings cemented to surface? If yes, is there a contingency casing if lost circulation occurs?

Section 4:	CEMENT PROGRAM									
String Type	Lead/Tail	Тор МD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	601	303	1.72	13.5	521	100	Class C	Additives + LCM
Surface	Tail	601	901	196	1.33	14.8	260	100	Class C	Additives + LCM
Intermediate	Lead	0	4080	291	3.66	10.5	1064	25	Class C	Additives + LCM
Intermediate	Tail	4080	5080	226	1.16	13.2	262	25	Class C	Additives + LCM
Production	Lead	4580	11306	352	3.93	10.5	1383	20	Class C	Additives + LCM
Production	Tail	11306	18130	985	1.44	13.2	1419	20	Class H	Fluid Loss + Dispersant + Retarder + LCM

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below the salt. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Pilot Hole? No Plugging Procedure for Pilot Hole: N/A

Pilot Hole Depth: N/A KOP Depth: N/A

Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type

Civitas Permian Operating LLC

Drilling & Operations Plan - Page 3 of 3

Section 5: CIRCULATING MEDIUM

Mud System Type:ClosedWill an air or gas system be used?No

Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating Medium Table:

Top Depth	Bottom Depth	Mud Type	Min. Weight (ppg)	Max Weight (ppg)
0	901	Water Based Mud	8.4	8.8
901	5080	Brine or Oil Based Mud	9.2	10.2
5080	18130	Brine or Oil Based Mud	9.0	9.5

Section 6:

TESTING, LOGGING, CORING

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole)

List of open and cased hole logs run in the well:

GR while drilling from Intermediate casing shoe to TD.

Coring operation description for the well:

Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

Section 7:	ANTICIPATED PRESSURE	
Anticipated Bottom Hole Pressure:	5859 PSI	
Anticipated Bottom Hole Temperature:	190 °F	
Anticipated Abnormal Pressure?	No	
Anticipated Abnormal Temperature?	No	

Potential Hazards:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with 43 CFR 3176. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

Section 8: OTHER INFORMATION

Hydrogen Sulfide Drilling

Operations Plan

Civitas Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure /
 cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as
 deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - o Green Flag Normal Safe Operation Condition
 - o Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required.
 In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drilling Stem Testing:

• No DST cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

Emergency Contacts						
Carlsbad Police Department	575.887.7551	911				
Carlsbad Medical Center	575.887.4100	911				
Eddy County Fire Service	575.628.5450	911				
Eddy County Sherriff	575.887.7551	911				
Lea County Fire Service	575.391.2983	911				
Lea County Sherriff	575.396.3611	911				
Jal Police Department	575.395.2121	911				
Jal Fire Department	575.395.2221	911				
Tap Rock - Doug Sproul - Drilling	303-653-3518					

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

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: Civitas	Permian Opera	ating, LLC	OGRID:	332195	Date:	09 / 15 / 2025	
II. Type: ☑ Origina	ıl □ Amendme	ent due to \square 19.15.	.27.9.D(6)(a) NN	MAC □ 19.15.27.9.	.D(6)(b) NMAC [☐ Other.	
If Other, please describ	e:						
III. Well(s): Provide to be recompleted from					of wells proposed	to be drilled or propos	sed
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D	
Cosmo K Fee 151H	TBD	G-33-24S-35E	2377 FNL, 1775 FEL	675	1600	2200	
Cosmo K Fee 121H	TBD	G-33-24S-35E	2352' FNL, 1775' FEL	675	1600	2200	
V. Anticipated Sched or proposed to be recon					nt.		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sp ### 2 ###	Date	Commencement			
Cosmo K Fee 151H	TBD	01/01/2026	01/17/2026	02/15/2026	02/21/2026	03/15/2026	
Cosmo K Fee 121H	TBD	01/02/2026	01/26/2026	02/15/2026	02/21/2026	03/15/2026	
VI. Separation EquipovII. Operational Prace Subsection A through Figure VIII. Best Manageme during active and plann	etices: Attac	ch a complete desc NMAC.	cription of the ac	ctions Operator wil	l take to comply	with the requirements	s of

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	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

XI. Map. \square 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 Capa	city. The natural	gas gathering	system \square	will \square will	not have	capacity to	gather	100% of th	ne anticipated	natural ga
prod	uction volur	ne from the well	prior to the da	te of first p	production.						

XIII. Line Pressure. Operator \square does \square 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 we	ll(s).

_								
\Box	A 44 1 4	O 4	, 1 ,		1 4	•	4 41 '	sed line pressure
	A Hach I	Inerator	c nian to	manage n	raduction	in rechance	TO THE INCRESS	sea line nressiire

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	on
for which confidentiality is asserted and the basis for such assertion.	

Section 3 - Certifications <u>Effective May 25, 2021</u>

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:

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

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) 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
- 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: Wurta
Printed Name: Ally Ota
Title: Permitting Project Manager
E-mail Address: aota@fieldinghillllc.com
Date: 9/15/2025
Phone: 435-671-7477
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Civitas Permian Operating Natural Gas Management Plan

VI. Separation Equipment:

Each surface facility design includes the following process equipment: Multiphase test measurement per upstream pad, 3-phase separators, a sales gas scrubber, heater treaters, a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP - combined). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the flare system. Aboveground steel oil tanks & water tanks will be fitted with 32 oz thief hatches as well as PRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. Operational Practices:

- During drilling operations, gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During production operations, all process vessels (separators, heater treaters, tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergencies, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified emergencies as mentioned in the BLM Waste Prevention Rule.



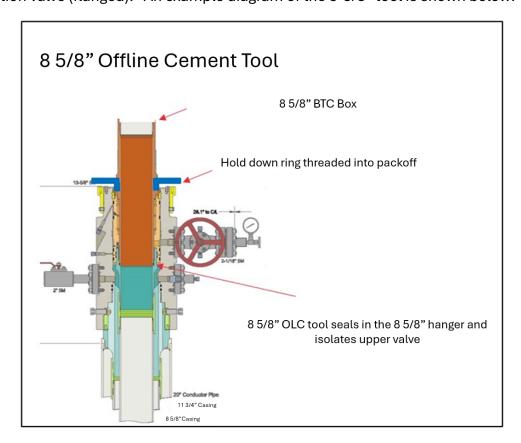
• To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. Best Management Practices:

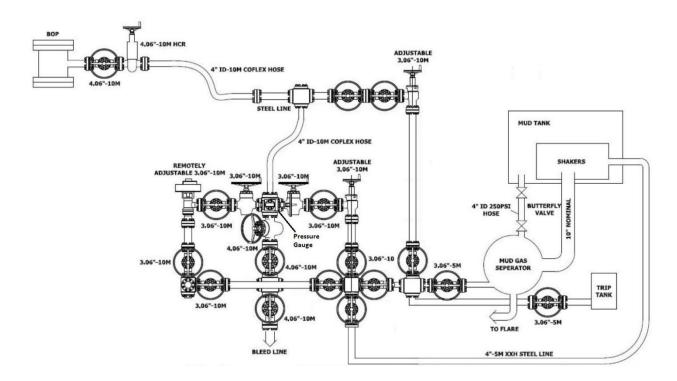
When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.

Offline Cementing: Civitas requests a variance for the option to offline cement surface and intermediate casing strings set higher than Wolfcamp formations. To execute offline cement jobs safely, the following precautions and equipment are detailed below:

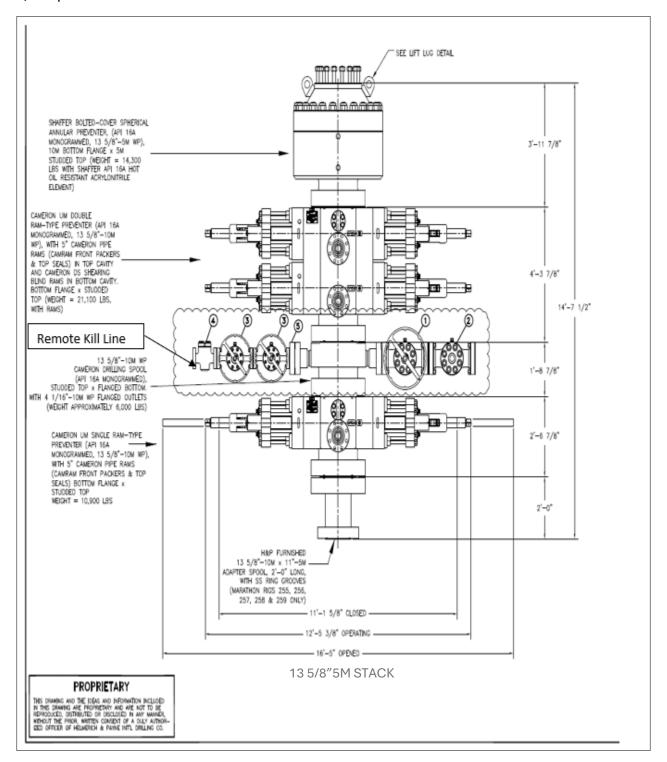
- For surface casing, no change to cement procedures to offline cement surface casing is anticipated.
- o For intermediate casing, during the drilling of the 10 5/8" hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online.
- Equipment for the offline cement job will include a tested/charted 5M working pressure dual manifold cement head system will be used with a standard offline cement tool that is packed off and tested through a port between the upper valve and packoff assembly (diagram below). Returns from the manifold will be taken to an auxiliary mudgas separator during cement job. The operational scope is described in the following steps: the casing will be landed on the mandrel, pull tested, packoff installed and tested to 80% of collapse of casing on the top and bottom seals, nipple down BOP and install offline cement tool/manifold. The offline cement tool screws into the top of the packoff assembly. During the cement job, all returns will be taken through the A-Section valve (flanged). An example diagram of the 8-5/8" tool is shown below:

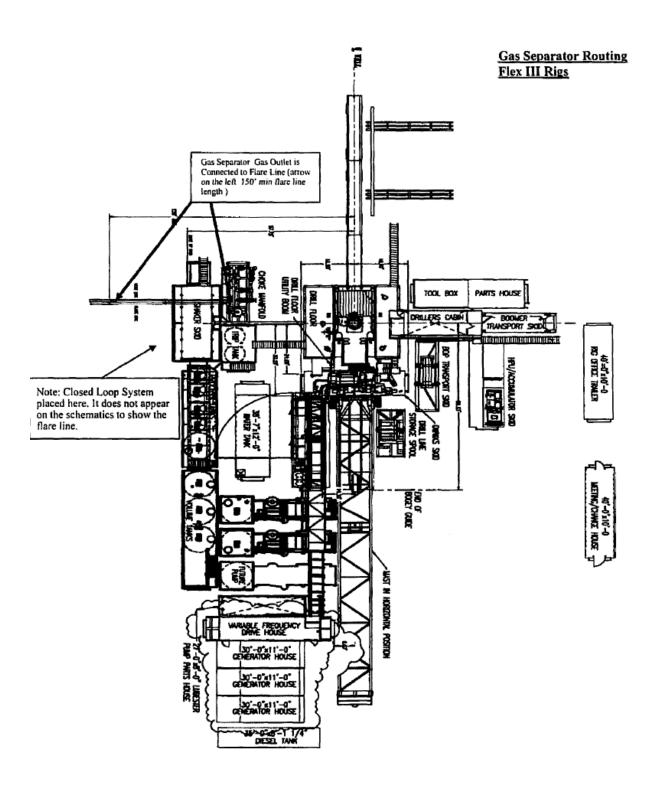


10M Choke Layout



5,000 psi BOP Stack





Multi-bowl Wellhead Design – 5M

