

Submit Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30- 025-31992
5. Indicate Type of Lease STATE [X] FEE []
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name NEW MEXICO L STATE
8. Well Number 012
9. OGRID Number 330132
10. Pool name or Wildcat
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3983 GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [X] Gas Well [] Other []
2. Name of Operator MORNINGSTAR OPERATING LLC
3. Address of Operator 400 W 7TH ST, FORT WORTH, TX 76102
4. Well Location Unit Letter _H_: 1880 feet from the _N_ line and _660_ feet from the _E_ line
Section 01 Township 18S Range 34E NMPM County LEA
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3983 GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [] PLUG AND ABANDON []
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: Sidetrack, Recomplete [X]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

MorningStar Operating LLC requests approval to drill a sidetrack off the NM L State #12 and recomplete to the Grayburg-San Andres.
The well will then be renamed to Vacuum Grayburg San Andres Unit #343.
Attached is the Planned Procedure, Proposed WBD, Proposed Drill Plan, C-102, and NGMP.

Spud Date: []

Rig Release Date: []

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Connie Blaylock TITLE Regulatory Analyst DATE 12/14/2023

Type or print name Connie Blaylock E-mail address: cblaylock@txoenergy.com PHONE: 817-334-7882
For State Use Only

APPROVED BY: TITLE DATE
Conditions of Approval (if any):

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

SIDETRACK, RECOMPLETE
TO VGSA

API Number 30-025-31992	Pool Code 62180	Pool Name VACUUM; GRAYBURG-SAN ANDRES
Property Code 331873	Property Name NEW MEXICO L STATE	Well Number 12
OGRID No. 330132	Operator Name MORNINGSTAR OPERATING LLC	Elevation 3984'

Surface Location

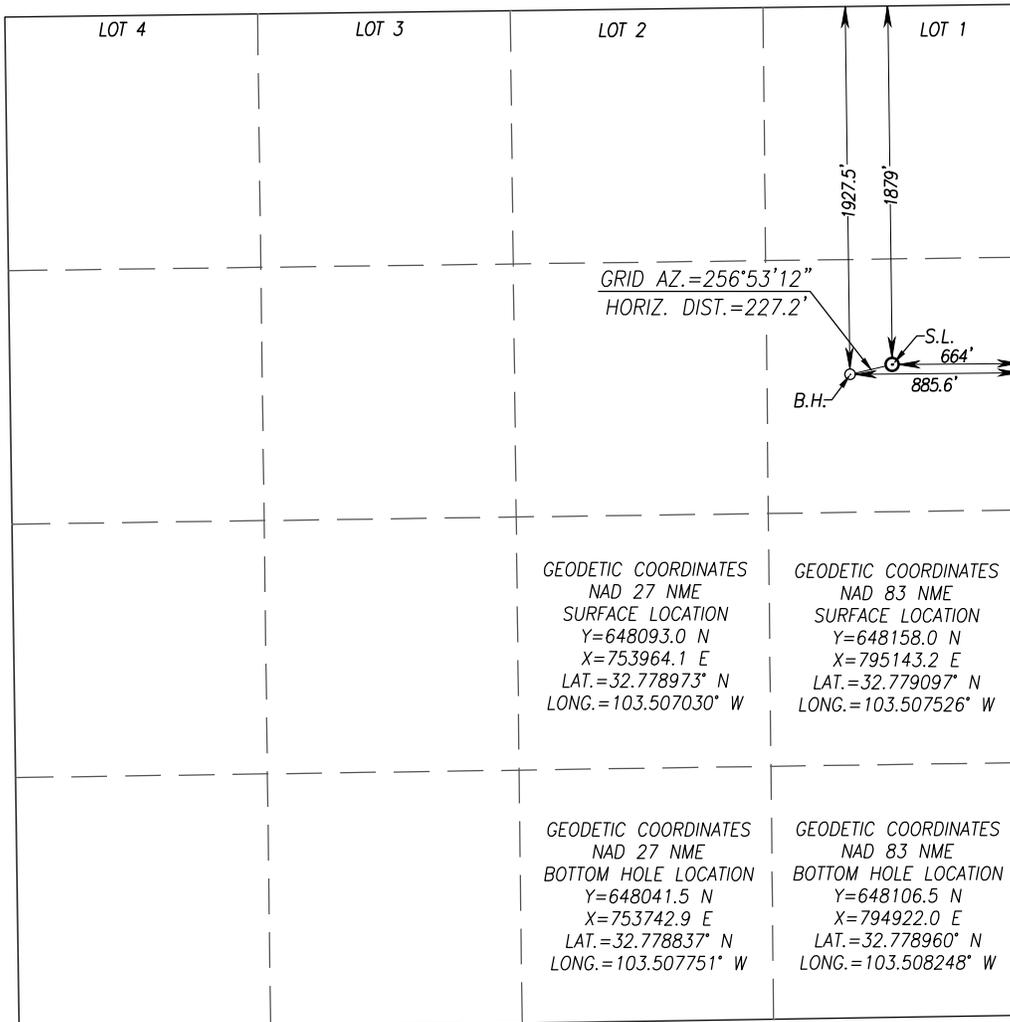
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	1	18-S	34-E		1879	NORTH	664	EAST	LEA

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
H	1	18-S	34-E		1927.5	NORTH	885.6	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Connie Blaylock 12/14/2023
Signature Date
CONNIE BLAYLOCK
Printed Name
cblaylock@txopartners.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

12641
Date of Survey
Signature & Seal of Professional Surveyor

Gary G. Eidson 12/13/2023
Certificate Number Gary G. Eidson 12641

ACK JWSC W.O.: 23.11.0389



TXO ENERGY PARTNERS

LEA CO., NM (NAD-27 / NME)

VGSAU

#343

ST01

Plan: PLAN #1

Standard Planning Report

07 December, 2023

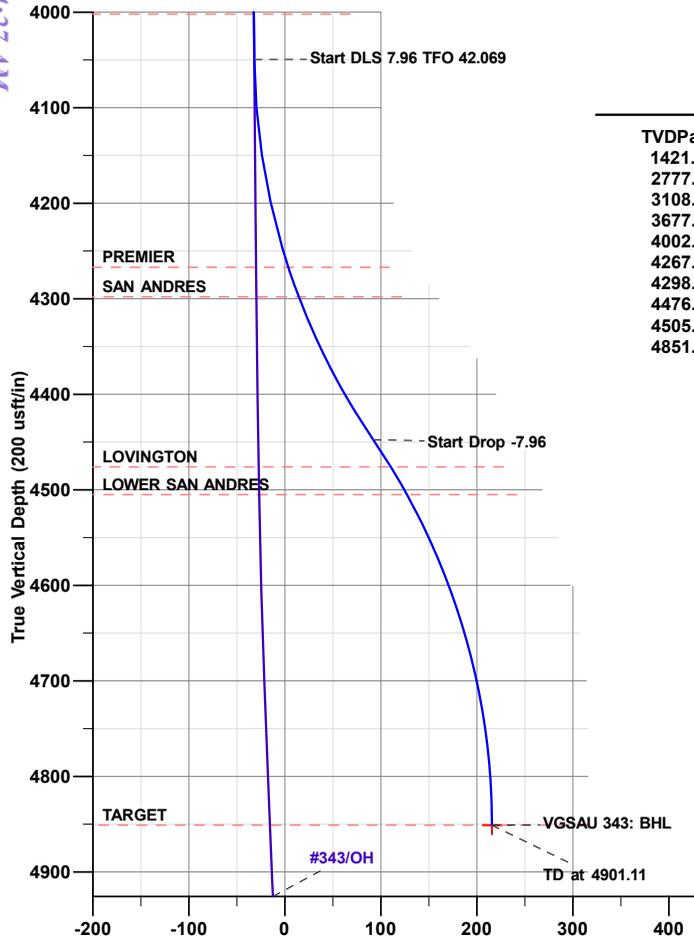


Project: LEA CO., NM (NAD-27 / NME)
 Site: VGSAU
 Well: #343
 Wellbore: ST01
 Design: PLAN #1

WELL DETAILS: #343

Rig Name: TBD
 RKB = 18' @ 4001.00usft (TBD)
 Ground Level: 3983.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	648090.25	753953.28	32.7789661	-103.5070655

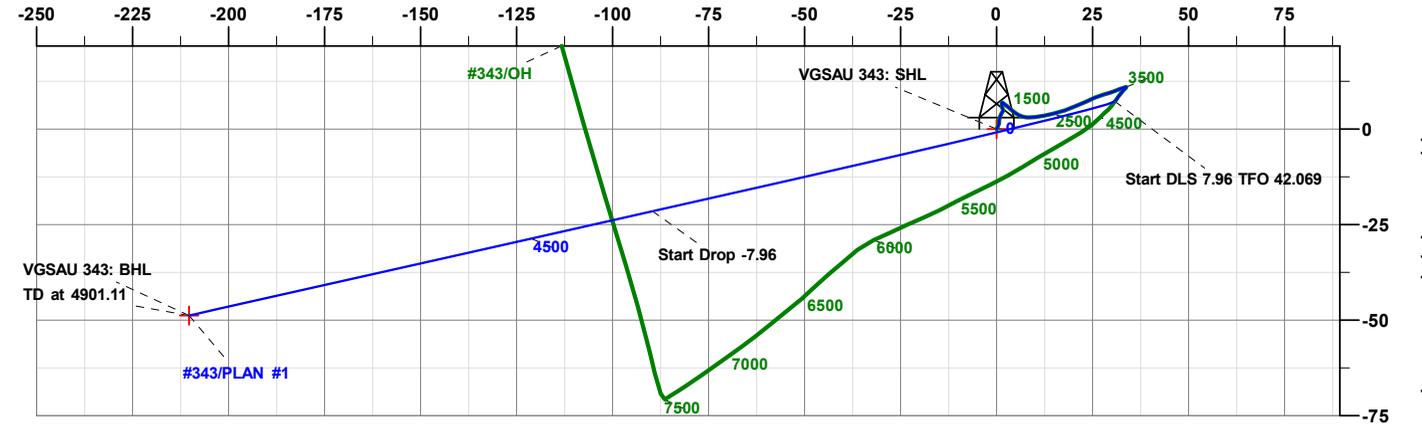


Vertical Section at 256.95° (200 usft/in)

FORMATION TOP DETAILS

TVDPath	Formation
1421.00	RUSTLER
2777.00	YATES
3108.00	SEVEN RIVERS
3677.00	QUEEN
4002.00	GRAYBURG*
4267.00	PREMIER
4298.00	SAN ANDRES
4476.00	LOVINGTON
4505.00	LOWER SAN ANDRES
4851.00	TARGET

West(-)/East(+) (50 usft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	4050.00	0.61	215.81	4049.59	7.28	30.82	0.00	0.000	-31.67	Target
2	4472.68	34.10	257.27	4447.42	-21.48	-89.55	7.96	42.069	92.09	
3	4901.11	0.00	0.00	4851.00	-48.75	-210.28	7.96	180.000	215.86	VGSAU 343: BHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VGSAU 343: SHL	0.00	0.00	0.00	648090.25	753953.28	32.7789661	-103.5070655
VGSAU 343: BHL	4851.00	-48.75	-210.28	648041.50	753743.00	32.7788366	-103.5077509

PROJECT DETAILS: LEA CO., NM (NAD-27 / NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level



Azimuths to Grid North
 True North: -0.45°
 Magnetic North: 5.82°

Magnetic Field
 Strength: 47564.5snT
 Dip Angle: 60.33°
 Date: 12/07/2023
 Model: IGRF2020

Note: this electronic file is provided for information purposes only. Prototype Well Planning LLC, its employees, and agents make no guarantee or warranty, expressed or implied, as to the accuracy of this document. The data included here and may be subject to error, while corruption, change, alteration, or update without any notice to the user. Prototype Well Planning LLC, its employees, and its agents assume no responsibility, expressed or implied, for any damages incurred either directly or indirectly by the use of this document. The users agree to the above specified terms of this document and agrees to verify the data enclosed to ascertain its accuracy for their intended use. If these conditions are unacceptable, user shall discard this document.



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #343
Company:	TXO ENERGY PARTNERS	TVD Reference:	RKB = 18' @ 4001.00usft (TBD)
Project:	LEA CO., NM (NAD-27 / NME)	MD Reference:	RKB = 18' @ 4001.00usft (TBD)
Site:	VGSAU	North Reference:	Grid
Well:	#343	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #1		

Project	LEA CO., NM (NAD-27 / NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	VGSAU				
Site Position:		Northing:	648,090.25 usft	Latitude:	32.7789661
From:	Map	Easting:	753,953.28 usft	Longitude:	-103.5070655
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.447 °

Well	#343					
Well Position	+N/-S	0.00 usft	Northing:	648,090.25 usft	Latitude:	32.7789661
	+E/-W	0.00 usft	Easting:	753,953.28 usft	Longitude:	-103.5070655
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,983.00 usft

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	4,050.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	256.95

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
4,050.00	0.61	215.81	4,049.59	7.28	30.82	0.00	0.00	0.00	0.000	
4,472.68	34.10	257.27	4,447.42	-21.48	-89.55	7.96	7.92	9.81	42.069	
4,901.11	0.00	0.00	4,851.00	-48.75	-210.28	7.96	-7.96	0.00	180.000	VGSAU 343: BHL



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #343
Company:	TXO ENERGY PARTNERS	TVD Reference:	RKB = 18' @ 4001.00usft (TBD)
Project:	LEA CO., NM (NAD-27 / NME)	MD Reference:	RKB = 18' @ 4001.00usft (TBD)
Site:	VGSAU	North Reference:	Grid
Well:	#343	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #1		

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	0.00
VGSAU 343: SHL										
104.00	0.66	30.56	104.00	0.50	0.29	-0.40	0.63	0.63	0.00	
204.00	0.58	4.22	203.99	1.50	0.62	-0.94	0.29	-0.08	-26.34	
304.00	0.50	4.84	303.99	2.44	0.70	-1.23	0.08	-0.08	0.62	
404.00	0.58	19.77	403.98	3.35	0.90	-1.64	0.16	0.08	14.93	
504.00	0.50	32.26	503.98	4.19	1.31	-2.22	0.14	-0.08	12.49	
604.00	0.24	41.07	603.98	4.72	1.68	-2.70	0.27	-0.26	8.81	
704.00	0.33	328.04	703.98	5.12	1.66	-2.78	0.35	0.09	-73.03	
804.00	0.40	344.16	803.97	5.70	1.42	-2.67	0.12	0.07	16.12	
904.00	0.35	13.13	903.97	6.34	1.39	-2.79	0.19	-0.05	28.97	
1,004.00	0.29	336.36	1,003.97	6.86	1.36	-2.87	0.21	-0.06	-36.77	
1,104.00	0.19	117.39	1,103.97	7.02	1.40	-2.95	0.45	-0.10	141.03	
1,204.00	0.12	142.71	1,203.97	6.86	1.62	-3.12	0.10	-0.07	25.32	
1,304.00	0.44	118.22	1,303.97	6.60	2.02	-3.45	0.33	0.32	-24.49	
1,404.00	0.28	133.31	1,403.97	6.25	2.53	-3.88	0.18	-0.16	15.09	
1,504.00	0.46	127.63	1,503.96	5.83	3.03	-4.27	0.18	0.18	-5.68	
1,604.00	0.36	148.29	1,603.96	5.32	3.51	-4.62	0.18	-0.10	20.66	
1,704.00	0.37	111.78	1,703.96	4.93	3.98	-4.99	0.23	0.01	-36.51	
1,804.00	0.50	137.83	1,803.96	4.49	4.57	-5.47	0.23	0.13	26.05	
1,904.00	0.44	108.70	1,903.95	4.04	5.23	-6.00	0.24	-0.06	-29.13	
2,004.00	0.42	129.76	2,003.95	3.69	5.87	-6.55	0.16	-0.02	21.06	
2,104.00	0.81	104.36	2,103.95	3.28	6.84	-7.40	0.47	0.39	-25.40	
2,204.00	0.73	91.08	2,203.94	3.09	8.16	-8.65	0.19	-0.08	-13.28	
2,304.00	1.37	85.80	2,303.92	3.17	9.99	-10.45	0.65	0.64	-5.28	
2,404.00	1.37	77.86	2,403.89	3.50	12.35	-12.82	0.19	0.00	-7.94	
2,504.00	1.74	76.23	2,503.85	4.12	14.99	-15.54	0.37	0.37	-1.63	
2,604.00	1.61	70.56	2,603.81	4.95	17.79	-18.45	0.21	-0.13	-5.67	
2,704.00	1.69	67.22	2,703.77	5.98	20.48	-21.30	0.13	0.08	-3.34	
2,777.26	1.63	66.16	2,777.00	6.82	22.43	-23.39	0.09	-0.08	-1.44	
YATES										
2,804.00	1.61	65.76	2,803.73	7.13	23.12	-24.13	0.09	-0.08	-1.51	
2,904.00	1.49	66.49	2,903.69	8.23	25.59	-26.79	0.12	-0.12	0.73	
3,004.00	1.25	75.12	3,003.66	9.03	27.84	-29.16	0.32	-0.24	8.63	
3,104.00	0.87	70.79	3,103.65	9.56	29.61	-31.00	0.39	-0.38	-4.33	
3,108.36	0.87	70.62	3,108.00	9.58	29.67	-31.07	0.07	-0.03	-3.99	
SEVEN RIVERS										
3,204.00	0.85	67.35	3,203.63	10.09	31.01	-32.49	0.05	-0.02	-3.42	
3,304.00	0.71	70.30	3,303.62	10.59	32.28	-33.83	0.15	-0.14	2.95	
3,404.00	0.53	72.85	3,403.62	10.93	33.30	-34.91	0.18	-0.18	2.55	
3,504.00	0.08	110.67	3,503.62	11.04	33.81	-35.43	0.47	-0.45	37.82	
3,604.00	0.39	227.07	3,603.62	10.79	33.63	-35.19	0.43	0.31	116.40	
3,677.39	0.51	223.38	3,677.00	10.38	33.22	-34.70	0.17	0.17	-5.03	
QUEEN										
3,704.00	0.56	222.45	3,703.61	10.19	33.05	-34.50	0.17	0.17	-3.50	
3,804.00	0.64	218.74	3,803.61	9.40	32.37	-33.65	0.09	0.08	-3.71	
3,904.00	0.61	214.76	3,903.60	8.53	31.71	-32.82	0.05	-0.03	-3.98	
4,002.40	0.59	216.56	4,002.00	7.69	31.11	-32.05	0.03	-0.02	1.83	
GRAYBURG*										
4,004.00	0.59	216.59	4,003.60	7.67	31.10	-32.03	0.03	-0.02	2.13	
4,050.00	0.61	215.81	4,049.59	7.28	30.82	-31.67	0.05	0.05	-1.69	
4,100.00	4.45	252.60	4,099.54	6.49	28.81	-29.53	7.96	7.68	73.57	
4,150.00	8.42	255.11	4,149.21	4.96	23.42	-23.93	7.96	7.94	5.01	
4,200.00	12.40	256.01	4,198.38	2.72	14.66	-14.90	7.96	7.95	1.81	



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #343
Company:	TXO ENERGY PARTNERS	TVD Reference:	RKB = 18' @ 4001.00usft (TBD)
Project:	LEA CO., NM (NAD-27 / NME)	MD Reference:	RKB = 18' @ 4001.00usft (TBD)
Site:	VGSAU	North Reference:	Grid
Well:	#343	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #1		

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)
4,250.00	16.38	256.48	4,246.80	-0.22	2.59	-2.48	7.96	7.96	0.94
4,271.15	18.06	256.62	4,267.00	-1.68	-3.49	3.78	7.96	7.96	0.65
PREMIER									
4,300.00	20.36	256.77	4,294.24	-3.86	-12.73	13.27	7.96	7.96	0.53
4,304.01	20.68	256.79	4,298.00	-4.18	-14.10	14.68	7.96	7.96	0.46
SAN ANDRES									
4,350.00	24.34	256.97	4,340.48	-8.18	-31.24	32.28	7.96	7.96	0.39
4,400.00	28.31	257.12	4,385.28	-13.14	-52.85	54.45	7.96	7.96	0.29
4,450.00	32.29	257.23	4,428.44	-18.74	-77.44	79.67	7.96	7.96	0.22
4,472.68	34.10	257.27	4,447.42	-21.48	-89.55	92.09	7.96	7.96	0.19
4,500.00	31.92	257.27	4,470.33	-24.76	-104.07	106.97	7.96	-7.96	0.00
4,506.66	31.39	257.27	4,476.00	-25.53	-107.48	110.47	7.96	-7.96	0.00
LOVINGTON									
4,540.17	28.73	257.27	4,505.00	-29.23	-123.85	127.25	7.96	-7.96	0.00
LOWER SAN ANDRES									
4,550.00	27.95	257.27	4,513.65	-30.26	-128.40	131.92	7.96	-7.96	0.00
4,600.00	23.97	257.27	4,558.60	-35.08	-149.75	153.80	7.96	-7.96	0.00
4,650.00	19.99	257.27	4,604.96	-39.20	-167.99	172.50	7.96	-7.96	0.00
4,700.00	16.01	257.27	4,652.50	-42.60	-183.06	187.95	7.96	-7.96	0.00
4,750.00	12.03	257.27	4,701.00	-45.27	-194.87	200.06	7.96	-7.96	0.00
4,800.00	8.05	257.27	4,750.23	-47.19	-203.37	208.77	7.96	-7.96	0.00
4,850.00	4.07	257.27	4,799.94	-48.35	-208.51	214.04	7.96	-7.96	0.00
4,901.11	0.00	0.00	4,851.00	-48.75	-210.28	215.86	7.96	-7.96	0.00
TARGET - VGSAU 343: BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VGSAU 343: SHL - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	648,090.25	753,953.28	32.7789661	-103.5070655
VGSAU 343: BHL - plan hits target center - Point	0.00	0.00	4,851.00	-48.75	-210.28	648,041.50	753,743.00	32.7788366	-103.5077508



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #343
Company:	TXO ENERGY PARTNERS	TVD Reference:	RKB = 18' @ 4001.00usft (TBD)
Project:	LEA CO., NM (NAD-27 / NME)	MD Reference:	RKB = 18' @ 4001.00usft (TBD)
Site:	VGSAU	North Reference:	Grid
Well:	#343	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,421.03	1,421.00	RUSTLER				
2,777.26	2,777.00	YATES				
3,108.36	3,108.00	SEVEN RIVERS				
3,677.39	3,677.00	QUEEN				
4,002.40	4,002.00	GRAYBURG*				
4,271.15	4,267.00	PREMIER				
4,304.01	4,298.00	SAN ANDRES				
4,506.66	4,476.00	LOVINGTON				
4,540.17	4,505.00	LOWER SAN ANDRES				
4,901.11	4,851.00	TARGET				

Vacuum Grayburg San Andres Unit 343 (formerly NM L State 12) sidetrack procedure

MSO requests approval to perform the following Sidetrack Procedure:

1. Prepare existing well for drilling operations with a Pulling Unit.
2. Pull tubing and rods.
 - a. RU BOP and test.
2. PU Mill and TIH to verify casing is clean.
3. Set Bridge Plug at approximately 7,450'.
4. Roll hole and pressure test casing.
5. Spot cement plugs as follows, then POOH.
 - a. 35' cmt on top of CIBP @ 7450'
 - b. 150' cmt plug from 6321'-6381' across Blinbry top
 - c. 150' cmt plug from 5787'-5937' across Glorieta top
 - d. 100' cmt plug from 4972'-5072' across DV tool @ 5022'
6. Perform whipstock simulation run.
7. PU whipstock and casing mill assembly and set whipstock for casing exit at 4,050' MD.
8. Release whip and mill window.
9. TOH. Secure well and move workover rig out.
10. MIRU drilling rig.
11. Pick up curve BHA and drill sidetrack.
12. Planned exit at 4,050' MD / 4,050' TVD (directional pilot well).
13. Drill 4 3/4" directional well from 4,050' MD / 4,050' TVD to 4,901' MD / 4,851' TVD at 0.0° Inc, 0.0° azimuth.
14. TOH and secure well. Move drilling rig out.
15. MIRU Pulling Unit.
16. Clean out run to TD.
17. Set packer and bullhead roughly 20,000 gallons of acid.
18. Run production equipment and turn well over to production.
19. Secure well, rig down and move off location.

**Proposed
WELLBORE DIAGRAM**

Vacuum Grayburg San Andres #343 (formerly New Mexico "L" State #12)

LOCATION

State	New Mexico
County	Lea
Surface Location	1880 FNL & 660 FEL Sec 1, R-34E, T-18S
Unit Ltr	H
Status:	

CASING DETAIL

Surface Csg.	
Size:	8-5/8"
Wt.:	24#
Set @:	1476'
Sxs cmt:	650 sx class "C"
TOC:	Surface
Hole Size:	11"
Production Csg.	
Size:	5-1/2"
Wt.:	15.5 & 17#
Set @:	8000
Sxs Cmt:	1925 class "H"
TOC:	1800' (temp survey)
Hole Size:	7-7/8"

Prod Csg: 43 jts 5-1/2", 17# WC-50
and 146 jts 15.5#, WC-50, LTC w/
DV Tool @ 5,022'

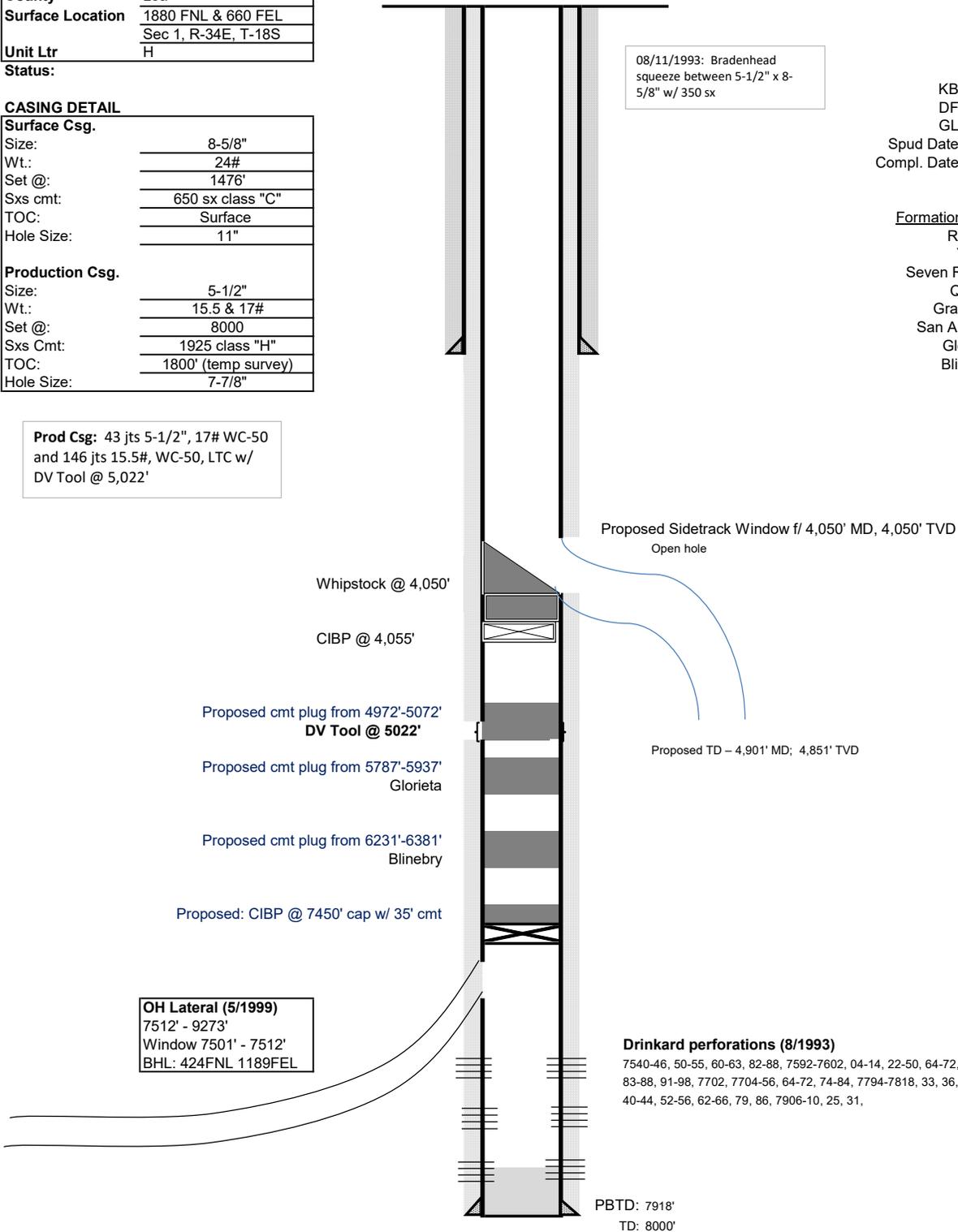
API 30-025-31992

08/11/1993: Bradenhead
squeeze between 5-1/2" x 8-
5/8" w/ 350 sx

KB: 3997'
DF: _____
GL: 3983'
Spud Date: 7/24/1993
Compl. Date: 8/24/1993

Formation tops (TVD):

Rustler - 1421'
Yates - 2777'
Seven Rivers - 3108'
Queen - 3677'
Grayburg - 4002'
San Andres - 4298'
Glorieta - 5887'
Blinebry - 6331'



Proposed cmt plug from 4972'-5072'
DV Tool @ 5022'

Proposed cmt plug from 5787'-5937'
Glorieta

Proposed cmt plug from 6231'-6381'
Blinebry

Proposed: CIBP @ 7450' cap w/ 35' cmt

OH Lateral (5/1999)
7512' - 9273'
Window 7501' - 7512'
BHL: 424FNL 1189FEL

Proposed Sidetrack Window f/ 4,050' MD, 4,050' TVD
Open hole

Proposed TD - 4,901' MD; 4,851' TVD

Drinkard perforations (8/1993)

7540-46, 50-55, 60-63, 82-88, 7592-7602, 04-14, 22-50, 64-72,
83-88, 91-98, 7702, 7704-56, 64-72, 74-84, 7794-7818, 33, 36,
40-44, 52-56, 62-66, 79, 86, 7906-10, 25, 31,

PBDT: 7918'
TD: 8000'

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: MORNINGSTAR OPERATING LLC **OGRID:** 330132 **Date:** 12/07/2023

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
NM L STATE #12	30-025-31992	H-01-18S-34E	1880 FNL 660 FEL	60	400	300

IV. Central Delivery Point Name: VGSAU BATTERY(well to be plugged back, recompleted in the G-SA) [See 19.15.27.9(D)(1) NMAC] **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
NM L STATE #12	30-025-31992					

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.

XOperator 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:

XOperator 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.

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.

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.

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:	<i>Connie Blaylock</i>
Printed Name:	CONNIE BLAYLOCK
Title:	REGULATORY ANALYST
E-mail Address:	cblaylock@txopartners.com
Date:	12/07/2023
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 at a central site. Process equipment includes a 3-phase separator tester, a 2-phase free water knockout, gun barrel, oil tanks, vapor recovery unit, and a flare stack. 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 vented/flared during emergency/non-scheduled issues.

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:** Hydrocarbon production will be minimized during completion and flowback operations. No flowback will occur until the well is connected to a properly sized system. When feasible, natural gas will be flared rather than vented. When sustained producible volumes are obtained, operations will turn to separation facilities and gathering pipeline.
- **Production Operations:** Efforts will be made to minimize waste. Process equipment (separator and tanks) is designed for efficient separation and routing produced gas to the sales pipeline. Flaring rather than venting will be the preferred method to handle emergencies and malfunctions. 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

CONDITIONS

Action 296072

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 296072
	Action Type: [C-103] NOI Recompletion (C-103E)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Notify OCD 24 hours prior to casing & cement	12/19/2023
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	12/19/2023