

was not able to get a good scan because of the highlighter that was used on the sundry : bc

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	5. Lease Serial No. NMNM118722
2. Name of Operator CHEVRON USA INCORPORATED E-Mail: LBECERRA@CHEVRON.COM	6. If Indian, Allottee or Tribe Name
3. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T26S R32E N14W 455FNL 1430FWL 32.640063 N 143.103400630 W 1430	8. Well Name and No. SEC 14 T26S R32E N14W 455FNL 1430FWL
	9. API Well No. 30-025-45820-00-X1
	10. Field and Section Exploration Area WC025G09S263327G UP WOLFCAMP
	11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing ☐ Hydraulic Fracturing ☐ Reclamation ☐ Well Integrity
☐ Permit Application/Amendment	☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other Change to Original A
☐ Permit Application/Amendment	☐ Convert to Injection ☐ Plug Back ☐ Wellhead Disposal

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Chevron respectfully requests to change the casing design on this well to a 4-string design. The 9Pt drilling plan is attached with the following updates:

- Casing design factors have been updated to reflect new casing design.
- Annular clearance variance for the 5.5" production string in the 7-5/8" intermediate 2 liner. The crossover on the 5"x5.5" tapered production string will be located approximately 500' above the 7-5/8" shoe for all wells. Planned TOC will be above this crossover fulfilling BLM cementing requirement.
- Cement program updated to reflect changes in the casing design.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #468921 verified by the BLM Well Information System For CHEVRON USA INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 06/13/2019 (19PP2188SE)	
Name (Printed/Typed) LAURA BECERRA	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 06/13/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZQIA STEVENS	Title PETROLEUM ENGINEER	Date 06/18/2019
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

KZ

Additional data for EC transaction #468921 that would not fit on the form

32. Additional remarks, continued

- Formations tops in the 9Pt. plan have been updated utilizing data from pilot holes Chevron has drilled in the area.

- Change depths to 23,000' MD/12,117' TVD

- Change of proposed ETP, LTP and BHL

FROM:

ETP:330' FNL 1240' FWL; LTP:330' FSL 1150' FWL; BHL:180' FSL 1150' FWL

TO:

ETP:100' FNL 1650' FWL; LTP:100' FSL 1650' FWL; BHL:25' FSL 1650' FWL

FIELD NAME CORRECTION: WC025G08S263205N

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, NM 87505

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

☒ AMENDED REPORT

API Number	Pool Code	Pool Name
30-025-45820	98065	WC-025 G-08 S263205N, UPPER WOLFCAMP
Property Code	Property Name	Well Number
325387	SD 14 23 FED P18	11H
LOGID No.	Operator Name	Elevation
4323	CHEVRON U.S.A. INC.	3197'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 100'	Feet from line	North/South line	Feet from line	East/West line	County
C	14	26 SOUTH	32 EAST, N.M.P.M.	455'		NORTH	1430'	WEST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 100'	Feet from line	North/South line	Feet from line	East/West line	County
N	23	26 SOUTH	32 EAST, N.M.P.M.	25'		SOUTH	1650'	WEST	LEA

328 Beginning Well

division

SD 14 23 FED P18 11H WELL X= 712.011 Y= 382.198 LAT. 32.048930 N LONG. 103.649059 W NAD 27 X= 753.198 Y= 382.255 LAT. 32.049055 N LONG. 103.649529 W NAD83/2011 ELEVATION +3197' NAVD 88 PROPOSED BOTTOM HOLE LOCATION X= 712.280 Y= 371.981 LAT. 32.020840 N LONG. 103.648399 W NAD 27 X= 753.468 Y= 372.038 LAT. 32.020965 N LONG. 103.648868 W NAD83/2011 PROPOSED FIRST TAKE POINT X= 712.230 Y= 382.554 LAT. 32.049906 N LONG. 103.648345 W NAD 27 X= 753.417 Y= 382.612 LAT. 32.050031 N LONG. 103.648815 W NAD83/2011 PROPOSED LAST TAKE POINT X= 712.280 Y= 372.056 LAT. 32.021046 N LONG. 103.648398 W NAD 27 X= 753.467 Y= 372.113 LAT. 32.021171 N LONG. 103.648867 W NAD83/2011	Proposed First Take Point 100' FNL, 1,650' FWL N 31°34'27" E 418.30' Proposed Last Take Point 100' FSL, 1,650' FWL CORNER COORDINATES TABLE (NAD 27) A - Y=382643.92, X=710579.74 B - Y=382677.22, X=715890.15 C - Y=371945.53, X=710630.44 D - Y=371978.70, X=715943.63 E - Y=382652.25, X=711907.34 F - Y=382660.57, X=713234.95 G - Y=371962.12, X=713287.04 H - Y=371953.82, X=711958.74	17 OPERATOR CERTIFICATION I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Laura Becerra</i> Date: 6/12/2019 Printed Name: Laura Becerra E-mail Address: L.Becerra@Chevron.com 18 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. Date of Survey: 07/25/2017 Signature and Seal of Professional Surveyor: <i>Robert L. Lastrapes</i> Certificate Number: 23006 06/12/2019
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Delaware Basin

Changes to APD/COA for Federal Well



Well Name:

SD 14 23 FED P18

11H

30-025-45820

Rig:

Nabors 1208

CVX CONTACT:

Jason Hannen
MCBU D&C Engineer – Nabors X30
Chevron North America Exploration and Production Co.
MidContinent Business Unit
Office: (713) 372-1169
Cell: (432) 238-3004
Email: Jason.Hannen@chevron.com

Summary of Changes to APD Submission

Chevron respectfully requests to update the original 9-point plan submitted for this well. The following changes were made to the 9-point plan:

• • • • • The well casing design factors are summarized in the following table:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	850'	17-1/2"	13-3/8"	54.5 #	J55	BTC	New
Intermediate 1	0'	4000'	12-1/4"	9-5/8"	42.5 #	L-80IC	LTC	New
Intermediate 2								
(Liner)	4,400'	11,500'	8-1/2"	7-5/8"	29.7 #	L-80IC	W-510	New
Production	0'	11,000'	6-3/4"	5-5"	20 #	P-110-4CY	PXP-BTC	New
(Taper String)	11,000'	22,000'	6-3/4"	5"	18 #	P-110-4CY	W-521	New

- • Casing design factors have been updated to reflect new casing design
- Annular clearance variance for the 5.5" production string in the 7-5/8" intermediate 2 liner. The crossover on the 5"x5.5" tapered production string will be located approximately 500' above the 7-5/8" shoe for all wells. Planned LOC will be above this crossover fulfilling BLM cementing requirement.
- Formations tops in the 9-point plan have been updated utilizing data from pilot holes Chevron has drilled in the area.

Picking up attached updated 9-point drilling plan

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler	2,330	699	699
Castile	492	2,137	2,133
Lamar	4,344	4,673	4,688
Bell Canyon	1,400	4,629	4,664
Cherry Canyon	2,056	5,587	5,638
Brushy Canyon	3,945	7,174	7,209
Bone Spring Limestone	5,588	8,789	8,824
Upr. Avalon	5,840	8,839	8,874
Top Bone Spring 1	6,428	9,657	9,692
Top Bone Spring 2	7,026	10,249	10,284
Top Bone Spring 3	7,050	11,188	11,223
Wolfcamp	8,673	11,902	11,966
Wolfcamp A1	8,887	12,116	12,179
Estimated LTD AW/Wcamp A1	8,887	12,116	22,000

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest Expected Base of Fresh Water		700
Water	Rustler	699
Water	Bell Canyon	4,629
Water	Cherry Canyon	5,587
Oil/Gas	Brushy Canyon	7,174
Oil/Gas	Bone Spring Limestone	8,789
Oil/Gas	Upr. Avalon	8,839
Oil/Gas	Top Bone Spring 1	9,657
Oil/Gas	Top Bone Spring 2	10,249
Oil/Gas	Top Bone Spring 3	11,188
Oil/Gas	Wolfcamp	11,902
Oil/Gas	Wolfcamp A1	12,116

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT

Will have a minimum of a 10000 psi rig stack (see proposed schematic) for drill out below surface (Wolfcamp is not exposed until drillout of the intermediate 2 casing). Could possibly utilize the 5000 psi rig stack (see proposed schematic) for drill out below surface casing due to the availability of 10 M annular. (Wolfcamp is not exposed until drillout of the intermediate 2 casing) Stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate 1 & intermediate 2, and production will take place. A full BOP test will be performed unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs) BOP test will be conducted by a third party.

Chevron requests a variance to use a FMC UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	850'	17-1/2"	13-3/8"	54.5 #	J55	BTC	New
Intermediate 1	0'	4,900'	12-1/4"	9-5/8"	43.5#	L-80IC	LTC	New
(Liner)	4,600'	11,500'	8-1/2"	7-5/8"	29.7 #	L-80IC	W-513	New
Production	0'	4,500'	6-3/4"	5-1/2"	20#	P-110-IC	TXP BTC	New
(Taper String)	4,500'	22,000'	6-3/4"	5"	18#	P-110-IC	W-521	New

b. Casing design subject to revision based on geologic conditions encountered.

c. The "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.

d. Chevron will fill casing at a minimum of every 20 fts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Intermediate 1 Casing: 5,132' TVD

Intermediate 2 Liner: 11,850' TVD

Casing Design

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Td Axial
Surface	1.48	2.10	4.91	1.80
Intermediate 1	1.52	1.87	2.79	1.83
Intermediate 2 (Liner)	1.33	2.59	1.60	1.66
Production	1.10	1.39	1.61	1.32

Min SF is the smallest of a group of safety factors that include the following considerations:

	Surf	Int (1)	Int 2 (Liner)	Prod
Burst Design				
Pressure Test- Surface, Int 1, Int 2, Prod Csg P external: Mud weight above TOC, PP below P internal: Test psi + next section heaviest mud in csg	X	X	X	X
Displace to Gas- Surf Csg P external: Mud weight above TOC, PP below P internal: Field Gas from Next Csg Point	X			
Gas over mud (60/40 - Limit Frac at Shoe) - Int 1, Int 2 Csg P external: Mud weight above TOC, PP below P internal: 60% gas over 40% mud from hole TD PP		X	X	
Stimulation (Frac) Pressures- Prod Csg P external: Mud weight above TOC, PP below P internal: Max inj pressure w/ heaviest injected fluid				X
Tubing leak- Prod Csg (Packer @ KOP) P external: Mud weight above TOC, PP below P internal: Leak just below surf, 8.45 ppg packer fluid				X
Collapse Design				
Full Evacuation - Surface, Int 1, Int 2, Prod Csg P external: Water gradient in cement, mud above TOC P internal: none	X	X	X	X
Cementing- Surf, Int 1, Int 2, Prod Csg P external: Wet cement P internal: displacement fluid - water	X	X	X	X
Tension Design				
72k lb overpull			X	
100k lb overpull	X	X		X

5. **CEMENTING PROGRAM**

Surface	Flynn	Top	Bottom	Weight (ppg)	Yield (sx/cu ft)	% LOSS Open Hole	Sacks	Water gal/sk	Admixtures
									Extender Antifoam Retarder
Tail	Class C	0'	650'	14.8	1.33	30	650	6.37	
Intermediate									Antifoam Extender Salt Retarder
Lead	Class C	0'	4,600'	11.0	2.56	110	3704	14.60	Viscosifier
									Antifoam Retarder
Tail	Class C	4,600'	4,900'	14.8	1.335	110	576	6.29	Viscosifier
Liner									Antifoam Extender Salt Retarder
Lead	Class C	4,600'	11,350'	11.0	2.56	140	462	14.60	Viscosifier
									Antifoam Extender Salt Retarder Viscosifier
Tail	Class C	11,150'	11,500'	14.8	1.335	50	59	6.29	
Production									Antifoam Dispersent Fluid Loss Retarder Viscosifier
Lead	Class H	8,000'	21,500'	15.6	1.184	35	1558	5.18	
Tail	Class H	21,500'	23,000'	16.0	1.903	20	110	7.45	

1. Final cement volumes will be determined by caliper.
2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
3. Production casing will have one solid body type centralizer on every joint from TD to KOP. Bowspring type centralizers will be run every other joint from KOP into intermediate casing 500' above planned TOC.

6. MUD PROGRAM

From	To	Type	Weight	P. Vis	Filtrate
0	650'	Spud Mud	8.3-8.7	32-34	NC-NC
650'	4,000'	Brine	9.4-10.6	28-30	25-30
4,000'	11,500'	Oil Brine	8.8-10.0	70-75	25-30
11,500'	22,200'	Oil Based Mud	12.0-14.8	70-75	25-30

A closed system will be utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and chemicals will be disposed in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of all waste will follow EPA regulations and accompanying manifests.

A complete spill log will be maintained every 24 hours. After each shift, the log will be reviewed for strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect loss or gain of circulating fluid volume. When abnormal pressures are anticipated, a pit volume indicator (PVI), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- Drill stem tests are not planned.
- The logging program will be as follows:

TYPE	Logs	Interval	Timing
Mudlogs	2 Man Mud Log	Surface casing shoe through prod hole TD	While drilling or circulating
LWD	MWD Gamma	Int. and Prod. Hole	While drilling

- Conventional whole core samples are not planned.
- A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- No abnormal pressures or temperatures are expected. Estimated BHP at Int. 1 TD is: 2,361 psi
No abnormal pressures or temperatures are expected. Estimated BHP at Int. 2 TD is: 5,359 psi
No abnormal pressures or temperatures are expected. Estimated BHP at Prod. TD is: 9,382 psi
- Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



Pointing made from Ground	Yes/No
Magnetic Declination	0.000000
Declination Date:	June 08, 2018
Magnetic Declination Model	HDGM 2010
North Reference:	Grid North
Grid Overlap	0.000000
Total Corr Mag North to Grid	0.000000
North:	
Local Coord Referenced To:	Well Head

[illegible]

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Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	16400.00	90.10	179.73	12108.87	4089.55	-4088.57	240.18	0.00	378109.50	712251.17	N 32 2 15.88	W 103 38 54.12
	16500.00	90.10	179.73	12108.70	4189.55	-4188.57	240.68	0.00	378009.51	712251.05	N 32 2 14.69	W 103 38 54.12
	16600.00	90.10	179.73	12108.53	4289.55	-4288.56	241.13	0.00	377909.51	712251.12	N 32 2 13.70	W 103 38 54.13
	16700.00	90.10	179.73	12108.36	4389.55	-4388.56	241.61	0.00	377809.52	712252.80	N 32 2 12.71	W 103 38 54.13
	16800.00	90.10	179.73	12108.19	4489.55	-4488.56	242.09	0.00	377709.52	712253.08	N 32 2 11.72	W 103 38 54.13
	16900.00	90.10	179.73	12108.02	4589.55	-4588.56	242.56	0.00	377609.53	712253.55	N 32 2 10.73	W 103 38 54.13
	17000.00	90.10	179.73	12107.85	4689.55	-4688.56	243.04	0.00	377509.53	712254.03	N 32 2 9.74	W 103 38 54.13
	17100.00	90.10	179.73	12107.68	4789.55	-4788.56	243.51	0.00	377409.54	712254.50	N 32 2 8.75	W 103 38 54.13
	17200.00	90.10	179.73	12107.51	4889.55	-4888.56	243.99	0.00	377309.55	712254.98	N 32 2 7.76	W 103 38 54.14
SD 14 23 FED P18 11H - MP	17204.65	90.10	179.73	12107.50	4894.30	-4893.20	244.01	0.00	377305.00	712255.00	N 32 2 7.71	W 103 38 54.14
	17300.00	90.10	179.73	12107.33	4994.30	-4993.20	244.49	0.00	377205.00	712255.00	N 32 2 6.72	W 103 38 54.14
	17400.00	90.10	179.73	12107.16	5094.30	-5093.20	244.97	0.00	377105.00	712255.00	N 32 2 5.73	W 103 38 54.14
	17500.00	90.10	179.73	12106.99	5194.30	-5193.20	245.42	0.00	377005.00	712255.00	N 32 2 4.74	W 103 38 54.14
	17600.00	90.10	179.73	12106.82	5294.30	-5293.20	245.88	0.00	376905.00	712255.00	N 32 2 3.75	W 103 38 54.14
	17700.00	90.10	179.73	12106.65	5394.30	-5393.20	246.37	0.00	376805.00	712255.00	N 32 2 2.76	W 103 38 54.15
	17800.00	90.10	179.73	12106.48	5494.30	-5493.20	246.85	0.00	376705.00	712255.00	N 32 2 1.77	W 103 38 54.15
	17900.00	90.10	179.73	12106.31	5594.30	-5593.20	247.30	0.00	376605.00	712255.00	N 32 2 0.78	W 103 38 54.15
	18000.00	90.10	179.73	12106.14	5694.30	-5693.20	247.76	0.00	376505.00	712255.00	N 32 2 0.79	W 103 38 54.15
	18100.00	90.10	179.73	12105.97	5794.30	-5793.20	248.27	0.00	376405.00	712255.00	N 32 1 58.85	W 103 38 54.15
	18200.00	90.10	179.73	12105.79	5894.30	-5893.20	248.75	0.00	376305.00	712255.00	N 32 1 57.86	W 103 38 54.16
	18300.00	90.10	179.73	12105.62	5994.30	-5993.20	249.20	0.00	376205.00	712255.00	N 32 1 56.87	W 103 38 54.16
	18400.00	90.10	179.73	12105.45	6094.30	-6093.20	249.70	0.00	376105.00	712255.00	N 32 1 55.88	W 103 38 54.16
	18500.00	90.10	179.73	12105.28	6194.30	-6193.20	250.16	0.00	376005.00	712255.00	N 32 1 54.89	W 103 38 54.16
	18600.00	90.10	179.73	12105.11	6294.30	-6293.20	250.64	0.00	375905.00	712255.00	N 32 1 53.90	W 103 38 54.16
	18700.00	90.10	179.73	12104.94	6394.30	-6393.20	251.13	0.00	375805.00	712255.00	N 32 1 52.92	W 103 38 54.16
	18800.00	90.10	179.73	12104.76	6494.30	-6493.20	251.61	0.00	375705.00	712255.00	N 32 1 51.93	W 103 38 54.17
	18900.00	90.10	179.73	12104.59	6594.30	-6593.20	252.09	0.00	375605.00	712255.00	N 32 1 50.94	W 103 38 54.17
	19000.00	90.10	179.73	12104.42	6694.30	-6693.20	252.58	0.00	375505.00	712255.00	N 32 1 49.95	W 103 38 54.17
	19100.00	90.10	179.73	12104.25	6794.30	-6793.20	253.04	0.00	375405.00	712255.00	N 32 1 48.96	W 103 38 54.17
	19200.00	90.10	179.73	12104.08	6894.30	-6893.20	253.51	0.00	375305.00	712255.00	N 32 1 47.97	W 103 38 54.17
	19300.00	90.10	179.73	12103.91	6994.30	-6993.20	253.99	0.00	375205.00	712255.00	N 32 1 46.98	W 103 38 54.18
	19400.00	90.10	179.73	12103.74	7094.30	-7093.20	254.47	0.00	375105.00	712255.00	N 32 1 45.99	W 103 38 54.18
	19500.00	90.10	179.73	12103.57	7194.30	-7193.20	254.94	0.00	375005.00	712255.00	N 32 1 45.00	W 103 38 54.18
	19600.00	90.10	179.73	12103.40	7294.30	-7293.20	255.42	0.00	374905.00	712255.00	N 32 1 44.01	W 103 38 54.18
	19700.00	90.10	179.73	12103.23	7394.30	-7393.20	255.89	0.00	374805.00	712255.00	N 32 1 43.02	W 103 38 54.18
	19800.00	90.10	179.73	12103.06	7494.30	-7493.20	256.37	0.00	374705.00	712255.00	N 32 1 42.03	W 103 38 54.18
	19900.00	90.10	179.73	12102.89	7594.30	-7593.20	256.85	0.00	374605.00	712255.00	N 32 1 41.04	W 103 38 54.18
	20000.00	90.10	179.73	12102.72	7694.30	-7693.20	257.30	0.00	374505.00	712255.00	N 32 1 40.05	W 103 38 54.18
	20100.00	90.59	179.73	12100.34	7789.54	-7788.51	257.80	0.00	374409.82	712268.79	N 32 1 39.06	W 103 38 54.19
	20200.00	90.59	179.73	12099.31	7889.53	-7888.50	258.28	0.00	374309.83	712269.27	N 32 1 38.07	W 103 38 54.19
	20300.00	90.59	179.73	12098.28	7989.53	-7988.50	258.77	0.00	374209.84	712269.75	N 32 1 37.08	W 103 38 54.19
	20400.00	90.59	179.73	12097.25	8089.53	-8088.50	259.25	0.00	374109.85	712270.23	N 32 1 36.09	W 103 38 54.19
	20500.00	90.59	179.73	12096.22	8189.53	-8188.50	259.73	0.00	374009.86	712270.71	N 32 1 35.10	W 103 38 54.19
	20600.00	90.59	179.73	12095.19	8289.53	-8288.50	260.21	0.00	373909.87	712271.19	N 32 1 34.11	W 103 38 54.19
	20700.00	90.59	179.73	12094.16	8389.53	-8388.50	260.69	0.00	373809.88	712271.67	N 32 1 33.12	W 103 38 54.19
	20800.00	90.59	179.73	12093.13	8489.53	-8488.50	261.17	0.00	373709.89	712272.15	N 32 1 32.13	W 103 38 54.19
	20900.00	90.59	179.73	12092.10	8589.53	-8588.50	261.65	0.00	373609.90	712272.63	N 32 1 31.14	W 103 38 54.20
	21000.00	90.59	179.73	12091.07	8689.53	-8688.50	262.13	0.00	373509.91	712273.11	N 32 1 30.15	W 103 38 54.20
	21100.00	90.59	179.73	12090.04	8789.53	-8788.50	262.56	0.00	373409.92	712273.59	N 32 1 29.16	W 103 38 54.21
	21200.00	90.59	179.73	12089.01	8889.53	-8888.50	263.04	0.00	373309.93	712274.07	N 32 1 28.17	W 103 38 54.21
	21300.00	90.59	179.73	12088.07	8989.53	-8988.50	263.52	0.00	373209.94	712274.55	N 32 1 27.18	W 103 38 54.21
	21400.00	90.59	179.73	12087.04	9089.53	-9088.50	263.99	0.00	373109.95	712275.03	N 32 1 26.19	W 103 38 54.21
	21500.00	90.59	179.73	12086.02	9189.53	-9188.50	264.47	0.00	373009.96	712275.51	N 32 1 25.20	W 103 38 54.22
	21600.00	90.59	179.73	12085.00	9289.53	-9288.50	264.94	0.00	372909.97	712275.99	N 32 1 24.21	W 103 38 54.22
	21700.00	90.59	179.73	12083.98	9389.53	-9388.50	265.42	0.00	372809.98	712276.47	N 32 1 23.22	W 103 38 54.22
	21800.00	90.59	179.73	12082.95	9489.53	-9488.50	265.90	0.00	372709.99	712276.95	N 32 1 22.23	W 103 38 54.22
	21900.00	90.59	179.73	12081.93	9589.53	-9588.50	266.37	0.00	372609.00	712277.43	N 32 1 21.24	W 103 38 54.22
	22000.00	90.59	179.73	12080.91	9689.53	-9688.50	266.85	0.00	372509.01	712277.91	N 32 1 20.25	W 103 38 54.22
	22100.00	90.59	179.73	12079.89	9789.53	-9788.50	267.33	0.00	372409.02	712278.39	N 32 1 19.26	W 103 38 54.23
	22200.00	90.59	179.73	12078.86	9889.53	-9888.50	267.80	0.00	372309.03	712278.87	N 32 1 18.27	W 103 38 54.23
	22300.00	90.59	179.73	12077.84	9989.53	-9988.50	268.28	0.00	372209.04	712279.35	N 32 1 17.28	W 103 38 54.23
	22400.00	90.59	179.73	12076.82	10089.53	-10088.50	268.76	0.00	372109.05	712279.83	N 32 1 16.29	W 103 38 54.23
LTP Cross	22454.04	90.59	179.73	12076.27	10143.58	-10142.40	269.01	0.00	372058.02	712280.00	N 32 1 15.77	W 103 38 54.23
	22500.00	90.59	179.73	12075.80	10189.51	-10188.35	269.23	0.00	372010.07	712280.22	N 32 1 15.31	W 103 38 54.23
SD 14 23 FED P18 11H - PBHL	22529.07	90.59	179.73	12075.50	10218.58	-10217.42	269.37	0.00	371961.00	712280.38	N 32 1 15.03	W 103 38 54.23

Survey Type: Def Plan

Survey Error Model: ISOWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Expected Max Incination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	31.500	1/100.000	30.000	30.000		B001Ma_MWD+HDGM-Depth Only	SD 14 23 Fed P18 11H / Chevron SD 14 23 FED P18 11H Rev0 kFc 06Jun19
	1	31.500	22529.071	1/100.000	30.000	30.000		B001Ma_MWD+HDGM	SD 14 23 Fed P18 11H / Chevron SD 14 23 FED P18 11H Rev0 kFc

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chevron USA Incorporated
LEASE NO.:	NMPM118727
WELL NAME & NO.:	SD 14-23 Fed P18 11H
SURFACE HOLE FOOTAGE:	165' N & 1620' W
BOTTOM HOLE FOOTAGE:	25' S & 1650' W
LOCATION:	Section 14, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

All previous COAs still apply except the following:

H2S	☒ YES	☐ NO	
Drilling	☒ None	☐ Significant	☐ Drilling ID
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Variance	☒ None	☐ Blow Hole	☐ Other
Surface Footage	☒ Conventional	☐ Minibowl	☐ Both
Drilling	☒ 21" Schlumberger Diamond	☐ Conventional Rods	☐ Wireline

A. Hydrogen Sulfide

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately 850 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

- Cement to surface. If cement does not circulate see B.1.a, c-d above

- If cement does not circulate, the cement on the 3rd casing string must come to surface.

Operator shall fill 1/3rd of casing with fluid while running intermediate casing to maintain compressive strength.

3. The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:

- Cement should tie-back at least 100 feet into previous casing string. Operator

4. The minimum required fill of cement behind the 5-1/2 x 5 inch production casing is:

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 10,000 (10M) psi.

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