

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 11 2020

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM121473

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
NMNM137168X

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
CICADA UNIT 28H

2. Name of Operator

CHEVRON USA INCORPORATED

Contact: LAURA BECERRA

E-Mail: LBECERRA@CHEVRON.COM

9. API Well No.
30-015-46469-00-X1

3a. Address

6301 DEAUVILLE BLVD
MIDLAND, TX 79706

3b. Phone No. (include area code)

Ph: 432-687-7665

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 3 T26S R27E SWSE 860FSL 1550FEL
32.066250 N Lat, 104.174866 W Lon

11. County or Parish, State

EDDY 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
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 recompleat 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 USA respectfully requests the following changes to the originally proposed FTP, LPT, BHL and target TVD:

FROM:

FTP: 330' FNL, 1254' FEL; LTP: 330' FSL, 1254' FEL; BHL: 50' FSL, 1254' FEL

TO:

FTP: 330' FNL, 792' FEL; LTP: 330' FSL, 792' FEL; BHL: 50' FSL, 792' FEL

TVD:

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #501488 verified by the BLM Well Information System
For CHEVRON USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 02/03/2020 (20PP1067SE)

Name (Printed/Typed) LAURA BECERRA

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 01/30/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By NDUNGU KAMAU

Title PETROLEUM ENGINEER

Date 03/03/2020

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 Carlsbad

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 **

KWP 3-18-20

Additional data for EC transaction #501488 that would not fit on the form

32. Additional remarks, continued

FROM: 9,259' TO: 9,064'

Copies of the revised certified well plat and directional survey are attached.

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
Revised Take Points

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46469		² Pool Code 98220		³ Pool Name PURPLE SAGE, WOLFCAMP (GAS)	
⁴ Property Code 325142		⁵ Property Name CICADA UNIT			⁶ Well Number 28H
⁷ OGRID No. 4323		⁸ Operator Name CHEVRON U.S.A. INC.			⁹ Elevation 3254'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	3	26 SOUTH	27 EAST, N.M.P.M.		860'	SOUTH	1550'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	26 SOUTH	27 EAST, N.M.P.M.		50'	SOUTH	792'	EAST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. 793 R-14459
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ CICADA UNIT NO. 28H WELL X= 549,242' Y= 387,819' NAD 27 LAT. 32.066129° N LONG. 104.174372° W X= 590,426' Y= 387,876' NAD83/86 LAT. 32.066251° N LONG. 104.174864° W ELEV. +3254' NAVD88 CORNER COORDINATES TABLE (NAD 27) A - Y=392448.13, X=550882.93 B - Y=387009.20, X=545492.91 C - Y=386937.82, X=550774.76 D - Y=381711.59, X=545622.05 E - Y=381659.95, X=550943.63 F - Y=376414.09, X=545653.53 G - Y=376383.44, X=550941.76 PROPOSED FIRST TAKE POINT X= 549,993' Y= 386,618' NAD 27 LAT. 32.062826° N LONG. 104.171954° W X= 591,176' Y= 386,675' NAD83/86 LAT. 32.062949° N LONG. 104.172446° W PROPOSED MID POINT X= 550,152' Y= 381,668' NAD 27 LAT. 32.049216° N LONG. 104.171465° W X= 591,336' Y= 381,725' NAD83/86 LAT. 32.049338° N LONG. 104.171956° W PROPOSED LAST TAKE POINT X= 550,150' Y= 376,718' NAD 27 LAT. 32.035609° N LONG. 104.171494° W X= 591,334' Y= 376,775' NAD83/86 LAT. 32.035732° N LONG. 104.171986° W PROPOSED BOTTOM HOLE LOCATION X= 550,150' Y= 376,438' NAD 27 LAT. 32.034839° N LONG. 104.171496° W X= 591,334' Y= 376,495' NAD83/86 LAT. 32.034962° N LONG. 104.171987° W		Sec. 3 1550' S 32°01'42" E 1,415.75' Proposed First Take Point 330' FNL, 792' FEL 860' Sec. 10 Proposed Mid Point S 01°50'26" E 4,953.28' Sec. 15 Proposed Last Take Point 330' FSL, 792' FEL 50' 792'		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: 1/29/2020 Printed Name: Laura Becerra E-mail Address: LBecerra@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. 07/18/2017 Date of Survey Signature and Seal of Professional Surveyor: <i>Steven M. Coleman</i> 22921 Certificate Number 01/24/2020
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RW 8/8-20

Delaware Basin

Changes to APD/COA for Federal Well



Well Names:

Well Name		API
Cicada Unit	28H	30-015-46469

Rig: Patterson 257

CVX CONTACT:

Hannah Wardo
Drilling and Completions Engineer

MidContinent Business Unit
Chevron North America Exploration & Production
1400 Smith St, Rm 43-174, Houston, TX 77002
Mobile: 832.963.9814
Office: 713.372.9032
Email: Hannah.Wardo@chevron.com

Summary of Changes to APD Submission

Cicada Unit 28H - Original

APPROVED FIRST TAKE POINT

X= 549,523'
NAD 27 Y= 386,855'
LAT. 32.063478° N
LONG. 104.173470° W

APPROVED MID POINT

X= 549,690'
NAD 27 Y= 381,672'
LAT. 32.049230° N
LONG. 104.172956° W

APPROVED LAST TAKE POINT

X= 549,688'
NAD 27 Y= 376,721'
LAT. 32.035618° N
LONG. 104.172985° W

APPROVED BOTTOM HOLE LOCATION

X= 549,688'
NAD 27 Y= 376,441'
LAT. 32.034849° N
LONG. 104.172987° W

Target formation = WCA_TGT1
Target TVD = 9,259'

Cicada Unit 28H - NEW

PROPOSED FIRST TAKE POINT

X= 549,993'
NAD 27 Y= 386,618'
LAT. 32.062826° N
LONG. 104.171954° W

PROPOSED MID POINT

X= 550,152'
NAD 27 Y= 381,668'
LAT. 32.049216° N
LONG. 104.171465° W

PROPOSED LAST TAKE POINT

X= 550,152'
NAD 27 Y= 376,718'
LAT. 32.035609° N
LONG. 104.171494° W

PROPOSED BOTTOM HOLE LOCATION

X= 550,150'
NAD 27 Y= 376,438'
LAT. 32.034839° N
LONG. 104.171496° W

Target formation = WCA_TGT3
Target TVD = 9,064'

PLANNED WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect® 6.0

REFERENCE WELLPATH IDENTIFICATION

Operator Chevron U.S.A. Inc.
Area Eddy County, NM
Field Purple Sage, Wolfcamp (Eddy Co., NM) NAD 27
Facility HNM 26 27 Pkg 9 Pad 9
Slot Cicada Unit No. 28H
Well Cicada Unit No. 28H
API/Legal
Wellbore Cicada Unit No. 28H PWB
Wellpath Cicada Unit No. 28H Rev-A.0
Sidetrack (none)

REPORT SETUP INFORMATION

Projection System NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
North Reference Grid
Scale 0.999912
Convergence at slot 0.09° East
Software System WellArchitect® 6.0
User Moyagusa
Report Generated 29/Jan/2020 at 15:41
DataBase/Source file WA_HOU_Midland_Defn/ev00.xml

PATH LOCATION	Local North [ft]	Local East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Location	-25	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W
Facility Reference Pt			549242	387844	32°03'58.3158"N	104°10'27.7364"W
Field Reference Pt			152400.3	0	30°59'42.8458"N	105°26'33.6593"W

WELLPATH DATUM

Calculation method Minimum curvature
Horizontal Reference Point Slot
Vertical Reference Point Patterson 257 (KB)
MD Reference Point Patterson 257 (KB)
Field Vertical Reference Mean Sea Level
Patterson 257 (KB) to Facility Vertical Datum 3282.00ft
Patterson 257 (KB) to Mean Sea Level 3282.00ft
Patterson 257 (KB) to Ground Level at Slot (Cicada Unit No. 28H) 28.00ft
Section Origin N 0.00, E 0.00 ft
Section Azimuth 180.04°

WELLPATH DATA † = interpolated, ‡ = extrapolated station

	MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
†	0	0	130.621	0	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	
	28	0	130.621	28	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	Tie On
†	128	0	130.621	128	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	
†	228	0	130.621	228	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	
†	328	0	130.621	328	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	
†	428	0	130.621	428	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	
†	528	0	130.621	528	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	
†	628	0	130.621	628	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	
†	650	0	130.621	650	0	0	0	549242	387819	32°03'58.0684"N	104°10'27.7368"W	0	0	0	Start Build
†	728	1.17	130.621	727.99	0.52	-0.52	0.6	549242.6	387818.5	32°03'58.0632"N	104°10'27.7298"W	1.5	1.5	0	
†	828	2.67	130.621	827.94	2.7	-2.7	3.15	549245.2	387816.3	32°03'58.0416"N	104°10'27.7003"W	1.5	1.5	0	
†	928	4.17	130.621	927.75	6.58	-6.58	7.68	549249.7	387812.4	32°03'58.0031"N	104°10'27.6478"W	1.5	1.5	0	
†	1028	5.67	130.621	1027.38	12.16	-12.17	14.18	549256.2	387806.8	32°03'57.9477"N	104°10'27.5722"W	1.5	1.5	0	
†	1128	7.17	130.621	1126.75	19.43	-19.45	22.67	549264.7	387799.6	32°03'57.8756"N	104°10'27.4737"W	1.5	1.5	0	
†	1228	8.67	130.621	1225.8	28.39	-28.42	33.13	549275.1	387790.6	32°03'57.7867"N	104°10'27.3523"W	1.5	1.5	0	
†	1328	10.17	130.621	1324.45	39.04	-39.07	45.55	549287.6	387779.9	32°03'57.6810"N	104°10'27.2082"W	1.5	1.5	0	
†	1428	11.67	130.621	1422.63	51.36	-51.41	59.93	549301.9	387767.6	32°03'57.5588"N	104°10'27.0413"W	1.5	1.5	0	
†	1528	13.17	130.621	1520.29	65.35	-65.41	76.26	549318.3	387753.6	32°03'57.4200"N	104°10'26.8518"W	1.5	1.5	0	
†	1628	14.67	130.621	1617.35	81	-81.07	94.52	549336.5	387737.9	32°03'57.2647"N	104°10'26.6399"W	1.5	1.5	0	
†	1650	15	130.621	1638.62	84.67	-84.74	98.79	549340.8	387734.3	32°03'57.2284"N	104°10'26.5903"W	1.5	1.5	0	End Build
†	1728	15	130.621	1713.96	97.8	-97.88	114.11	549356.1	387721.1	32°03'57.0981"N	104°10'26.4125"W	0	0	0	
†	1828	15	130.621	1810.55	114.64	-114.73	133.76	549375.8	387704.3	32°03'56.9311"N	104°10'26.1845"W	0	0	0	
†	1928	15	130.621	1907.14	131.47	-131.58	153.4	549395.4	387687.4	32°03'56.7640"N	104°10'25.9565"W	0	0	0	
†	2028	15	130.621	2003.74	148.31	-148.43	173.05	549415	387670.6	32°03'56.5970"N	104°10'25.7285"W	0	0	0	
†	2127.66	15	130.621	2100	165.09	-165.23	192.63	549434.6	387653.8	32°03'56.4305"N	104°10'25.5013"W	0	0	0	9 5/8" Casing
†	2128	15	130.621	2100.33	165.15	-165.28	192.69	549434.7	387653.7	32°03'56.4299"N	104°10'25.5005"W	0	0	0	
†	2228	15	130.621	2196.92	181.98	-182.13	212.34	549454.3	387636.9	32°03'56.2629"N	104°10'25.2725"W	0	0	0	
†	2328	15	130.621	2293.51	198.82	-198.98	231.99	549474	387620	32°03'56.0959"N	104°10'25.0445"W	0	0	0	
†	2428	15	130.621	2390.11	215.66	-215.83	251.63	549493.6	387603.2	32°03'55.9288"N	104°10'24.8165"W	0	0	0	
†	2528	15	130.621	2486.7	232.5	-232.68	271.28	549513.3	387586.3	32°03'55.7618"N	104°10'24.5885"W	0	0	0	
†	2628	15	130.621	2583.29	249.33	-249.54	290.92	549532.9	387569.5	32°03'55.5948"N	104°10'24.3605"W	0	0	0	
†	2728	15	130.621	2679.88	266.17	-266.39	310.57	549552.5	387552.6	32°03'55.4277"N	104°10'24.1325"W	0	0	0	
†	2828	15	130.621	2776.48	283.01	-283.24	330.21	549572.2	387535.8	32°03'55.2607"N	104°10'23.9045"W	0	0	0	
†	2928	15	130.621	2873.07	299.84	-300.09	349.86	549591.8	387518.9	32°03'55.0937"N	104°10'23.6766"W	0	0	0	
†	3028	15	130.621	2969.66	316.68	-316.94	369.5	549611.5	387502.1	32°03'54.9266"N	104°10'23.4486"W	0	0	0	
†	3128	15	130.621	3066.25	333.52	-333.79	389.15	549631.1	387485.2	32°03'54.7596"N	104°10'23.2206"W	0	0	0	
†	3228	15	130.621	3162.85	350.35	-350.64	408.79	549650.8	387468.4	32°03'54.5926"N	104°10'22.9926"W	0	0	0	

†	3328	15	130.621	3259.44	367.19	-367.49	428.44	549670.4	387451.5	32°03'54.4255"N	104°10'22.7646"W	0	0	0	
†	3428	15	130.621	3356.03	384.03	-384.34	448.08	549690	387434.7	32°03'54.2585"N	104°10'22.5366"W	0	0	0	
†	3528	15	130.621	3452.62	400.86	-401.19	467.73	549709.7	387417.9	32°03'54.0914"N	104°10'22.3086"W	0	0	0	
†	3628	15	130.621	3549.22	417.7	-418.04	487.37	549729.3	387401.2	32°03'53.9244"N	104°10'22.0806"W	0	0	0	
†	3728	15	130.621	3645.81	434.54	-434.89	507.02	549749	387384.2	32°03'53.7574"N	104°10'21.8526"W	0	0	0	
†	3828	15	130.621	3742.4	451.37	-451.74	526.66	549768.6	387367.3	32°03'53.5903"N	104°10'21.6246"W	0	0	0	
†	3928	15	130.621	3838.99	468.21	-468.59	546.31	549788.3	387350.5	32°03'53.4233"N	104°10'21.3966"W	0	0	0	
†	4028	15	130.621	3935.59	485.05	-485.44	565.95	549807.9	387333.6	32°03'53.2563"N	104°10'21.1687"W	0	0	0	
†	4128	15	130.621	4032.18	501.88	-502.29	585.6	549827.6	387316.8	32°03'53.0892"N	104°10'20.9407"W	0	0	0	
†	4228	15	130.621	4128.77	518.72	-519.14	605.24	549847.2	387299.9	32°03'52.9222"N	104°10'20.7127"W	0	0	0	
†	4328	15	130.621	4225.37	535.56	-535.99	624.89	549866.8	387283.1	32°03'52.7551"N	104°10'20.4847"W	0	0	0	
	4373.78	15	130.621	4269.59	543.27	-543.71	633.88	549875.8	387275.3	32°03'52.6787"N	104°10'20.3803"W	0	0	0	Rotate/Drop
†	4428	14.187	130.621	4322.06	552.15	-552.6	644.25	549886.2	387266.5	32°03'52.5905"N	104°10'20.2600"W	1.5	-1.5	0	
†	4528	12.687	130.621	4419.32	567.27	-567.73	661.89	549903.8	387251.3	32°03'52.4405"N	104°10'20.0553"W	1.5	-1.5	0	
†	4628	11.187	130.621	4517.15	580.72	-581.2	677.59	549919.5	387237.9	32°03'52.3071"N	104°10'19.8731"W	1.5	-1.5	0	
†	4728	9.687	130.621	4615.49	592.51	-592.99	691.34	549933.3	387226.1	32°03'52.1902"N	104°10'19.7135"W	1.5	-1.5	0	
†	4828	8.187	130.621	4714.28	602.61	-603.1	703.13	549945.1	387216	32°03'52.0899"N	104°10'19.5767"W	1.5	-1.5	0	
†	4928	6.687	130.621	4813.43	611.03	-611.53	712.95	549954.9	387207.5	32°03'52.0064"N	104°10'19.4627"W	1.5	-1.5	0	
†	5028	5.187	130.621	4912.89	617.76	-618.26	720.8	549962.7	387200.8	32°03'51.9396"N	104°10'19.3716"W	1.5	-1.5	0	
†	5128	3.687	130.621	5012.59	622.79	-623.3	726.67	549968.6	387195.8	32°03'51.8897"N	104°10'19.3035"W	1.5	-1.5	0	
†	5228	2.187	130.621	5112.46	626.12	-626.63	730.56	549972.5	387192.4	32°03'51.8566"N	104°10'19.2583"W	1.5	-1.5	0	
†	5328	0.687	130.621	5212.42	627.76	-628.27	732.46	549974.4	387190.8	32°03'51.8404"N	104°10'19.2362"W	1.5	-1.5	0	
	5373.78	0	178.16	5258.2	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	1.5	-1.5	0	Hold Vertical
†	5428	0	178.16	5312.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	5528	0	178.16	5412.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	5628	0	178.16	5512.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	5728	0	178.16	5612.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	5828	0	178.16	5712.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	5928	0	178.16	5812.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6028	0	178.16	5912.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6128	0	178.16	6012.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6228	0	178.16	6112.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6328	0	178.16	6212.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6428	0	178.16	6312.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6528	0	178.16	6412.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6628	0	178.16	6512.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6728	0	178.16	6612.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6828	0	178.16	6712.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	6928	0	178.16	6812.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7028	0	178.16	6912.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7128	0	178.16	7012.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7228	0	178.16	7112.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7328	0	178.16	7212.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7428	0	178.16	7312.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7528	0	178.16	7412.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7628	0	178.16	7512.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7728	0	178.16	7612.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7828	0	178.16	7712.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	7928	0	178.16	7812.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	8028	0	178.16	7912.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	8128	0	178.16	8012.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	8228	0	178.16	8112.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	8328	0	178.16	8212.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
	8415.58	0	178.16	8300	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	7" Casing
†	8428	0	178.16	8312.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
†	8528	0	178.16	8412.42	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	
	8606.62	0	178.16	8491.04	627.93	-628.45	732.67	549974.6	387190.6	32°03'51.8387"N	104°10'19.2338"W	0	0	0	Start Build
†	8628	2.138	178.16	8512.42	628.33	-628.84	732.69	549974.6	387190.2	32°03'51.8347"N	104°10'19.2337"W	10	10	0	
†	8728	12.138	178.16	8611.52	640.74	-641.25	733.08	549975	387177.8	32°03'51.7120"N	104°10'19.2293"W	10	10	0	
†	8828	22.138	178.16	8706.95	670.15	-670.66	734.03	549976	387148.4	32°03'51.4209"N	104°10'19.2188"W	10	10	0	
†	8928	32.138	178.16	8795.83	715.68	-716.19	735.49	549977.4	387102.9	32°03'50.9703"N	104°10'19.2026"W	10	10	0	
†	9028	42.138	178.16	8875.45	775.95	-776.46	737.43	549979.4	387042.6	32°03'50.3739"N	104°10'19.1811"W	10	10	0	
†	9128	52.138	178.16	8943.39	849.11	-849.63	739.78	549981.7	386969.5	32°03'49.6498"N	104°10'19.1551"W	10	10	0	
†	9228	62.138	178.16	8997.58	932.96	-933.48	742.47	549984.4	386885.6	32°03'48.8200"N	104°10'19.1253"W	10	10	0	
†	9328	72.138	178.16	9036.38	1024.94	-1025.46	745.43	549987.4	386793.6	32°03'47.9098"N	104°10'19.0925"W	10	10	0	
†	9428	82.138	178.16	9058.61	1122.25	-1122.77	748.55	549990.5	386696.3	32°03'46.9467"N	104°10'19.0579"W	10	10	0	
	9506.62	90	178.16	9064	1200.58	-1201.11	751.07	549993	386618	32°03'46.1715"N	104°10'19.0300"W	10	10	0	End Build - Landing
†	9528	90	178.16	9064	1221.95	-1222.48	751.75	549993.7	386596.6	32°03'45.9600"N	104°10'19.0224"W	0	0	0	
†	9628	90	178.16	9064	1321.9	-1322.42	754.96	549996.9	386496.7	32°03'44.9709"N	104°10'18.9869"W	0	0	0	
†	9728	90	178.16	9064	1421.84	-1422.37	758.17	550000.1	386396.8	32°03'43.9818"N	104°10'18.9513"W	0	0	0	
†	9828	90	178.16	9064	1521.79	-1522.32	761.39	550003.3	386296.8	32°03'42.9927"N	104°10'18.9157"W	0	0	0	
†	9928	90	178.16	9064	1621.74	-1622.27	764.6	550006.5	386196.9	32°03'42.0036"N	104°10'18.8801"W	0	0	0	

†	11428	90	178.16	9064	3120.93	-3121.5	812.75	550054.7	384697.8	32°03'27.1670"N	104°10'18.3466"W	0	0	0
†	11528	90	178.16	9064	3220.87	-3221.45	815.96	550057.9	384597.9	32°03'26.1779"N	104°10'18.3111"W	0	0	0
†	11628	90	178.16	9064	3320.82	-3321.39	819.17	550061.1	384497.9	32°03'25.1888"N	104°10'18.2755"W	0	0	0
†	11728	90	178.16	9064	3420.77	-3421.34	822.38	550064.3	384398	32°03'24.1997"N	104°10'18.2400"W	0	0	0
†	11828	90	178.16	9064	3520.71	-3521.29	825.59	550067.5	384298	32°03'23.2105"N	104°10'18.2044"W	0	0	0
†	11928	90	178.16	9064	3620.66	-3621.24	828.81	550070.7	384198.1	32°03'22.2214"N	104°10'18.1688"W	0	0	0
†	12028	90	178.16	9064	3720.61	-3721.19	832.02	550073.9	384098.2	32°03'21.2323"N	104°10'18.1333"W	0	0	0
†	12128	90	178.16	9064	3820.55	-3821.14	835.23	550077.2	383998.2	32°03'20.2432"N	104°10'18.0977"W	0	0	0
†	12228	90	178.16	9064	3920.5	-3921.08	838.44	550080.4	383898.3	32°03'19.2541"N	104°10'18.0621"W	0	0	0
†	12328	90	178.16	9064	4020.44	-4021.03	841.65	550083.6	383798.3	32°03'18.2650"N	104°10'18.0266"W	0	0	0
†	12428	90	178.16	9064	4120.39	-4120.98	844.86	550086.8	383698.4	32°03'17.2759"N	104°10'17.9910"W	0	0	0
†	12528	90	178.16	9064	4220.34	-4220.93	848.07	550090	383598.5	32°03'16.2868"N	104°10'17.9554"W	0	0	0
†	12628	90	178.16	9064	4320.28	-4320.88	851.28	550093.2	383498.5	32°03'15.2977"N	104°10'17.9199"W	0	0	0
†	12728	90	178.16	9064	4420.23	-4420.83	854.49	550096.4	383398.6	32°03'14.3086"N	104°10'17.8843"W	0	0	0
†	12828	90	178.16	9064	4520.18	-4520.78	857.7	550099.6	383298.6	32°03'13.3195"N	104°10'17.8488"W	0	0	0
†	12928	90	178.16	9064	4620.12	-4620.72	860.91	550102.8	383198.7	32°03'12.3303"N	104°10'17.8132"W	0	0	0
†	13028	90	178.16	9064	4720.07	-4720.67	864.12	550106	383098.8	32°03'11.3412"N	104°10'17.7776"W	0	0	0
†	13128	90	178.16	9064	4820.01	-4820.62	867.33	550109.3	382998.8	32°03'10.3521"N	104°10'17.7421"W	0	0	0
†	13228	90	178.16	9064	4919.96	-4920.57	870.54	550112.5	382898.9	32°03'9.3630"N	104°10'17.7065"W	0	0	0
†	13328	90	178.16	9064	5019.91	-5020.52	873.75	550115.7	382798.9	32°03'8.3739"N	104°10'17.6709"W	0	0	0
†	13428	90	178.16	9064	5119.85	-5120.47	876.96	550118.9	382699	32°03'7.3848"N	104°10'17.6354"W	0	0	0
†	13528	90	178.16	9064	5219.8	-5220.41	880.17	550122.1	382599.1	32°03'6.3957"N	104°10'17.5998"W	0	0	0
†	13628	90	178.16	9064	5319.74	-5320.36	883.38	550125.3	382499.1	32°03'5.4066"N	104°10'17.5643"W	0	0	0
†	13728	90	178.16	9064	5419.69	-5420.31	886.59	550128.5	382399.2	32°03'4.4175"N	104°10'17.5287"W	0	0	0
†	13828	90	178.16	9064	5519.64	-5520.26	889.8	550131.7	382299.2	32°03'3.4284"N	104°10'17.4931"W	0	0	0
†	13928	90	178.16	9064	5619.58	-5620.21	893.01	550134.9	382199.3	32°03'2.4392"N	104°10'17.4576"W	0	0	0
†	14028	90	178.16	9064	5719.53	-5720.16	896.22	550138.1	382099.4	32°03'1.4501"N	104°10'17.4220"W	0	0	0
†	14128	90	178.16	9064	5819.48	-5820.11	899.44	550141.4	381999.4	32°03'0.4610"N	104°10'17.3865"W	0	0	0
†	14228	90	178.16	9064	5919.42	-5920.05	902.65	550144.6	381899.5	32°02'59.4719"N	104°10'17.3509"W	0	0	0
†	14328	90	178.16	9064	6019.37	-6020	905.86	550147.8	381799.5	32°02'58.4828"N	104°10'17.3153"W	0	0	0
†	14428	90	178.16	9064	6119.31	-6119.95	909.07	550151	381699.6	32°02'57.4937"N	104°10'17.2798"W	0	0	0
	14459.62	90	178.16	9064	6150.92	-6151.55	910.08	550152	381668	32°02'57.1809"N	104°10'17.2685"W	0	0	0 Start Turn
†	14528	90	179.528	9064	6219.28	-6219.92	911.46	550153.4	381599.6	32°02'56.5044"N	104°10'17.2537"W	2	0	2
	14553.55	90	180.039	9064	6244.83	-6245.47	911.56	550153.5	381574.1	32°02'56.2516"N	104°10'17.2530"W	2	0	2 End Turn
†	14628	90	180.039	9064	6319.28	-6319.92	911.51	550153.4	381499.7	32°02'55.5148"N	104°10'17.2549"W	0	0	0
†	14728	90	180.039	9064	6419.28	-6419.92	911.44	550153.4	381399.7	32°02'54.5253"N	104°10'17.2574"W	0	0	0
†	14828	90	180.039	9064	6519.28	-6519.92	911.37	550153.3	381299.7	32°02'53.5357"N	104°10'17.2600"W	0	0	0
†	14928	90	180.039	9064	6619.28	-6619.92	911.3	550153.2	381199.7	32°02'52.5461"N	104°10'17.2625"W	0	0	0
†	15028	90	180.039	9064	6719.28	-6719.92	911.24	550153.2	381099.7	32°02'51.5565"N	104°10'17.2650"W	0	0	0
†	15128	90	180.039	9064	6819.28	-6819.92	911.17	550153.1	380999.7	32°02'50.5670"N	104°10'17.2676"W	0	0	0
†	15228	90	180.039	9064	6919.28	-6919.92	911.1	550153	380899.7	32°02'49.5774"N	104°10'17.2701"W	0	0	0
†	15328	90	180.039	9064	7019.28	-7019.92	911.03	550153	380799.7	32°02'48.5878"N	104°10'17.2726"W	0	0	0
†	15428	90	180.039	9064	7119.28	-7119.92	910.97	550152.9	380699.7	32°02'47.5983"N	104°10'17.2751"W	0	0	0
†	15528	90	180.039	9064	7219.28	-7219.92	910.9	550152.8	380599.7	32°02'46.6087"N	104°10'17.2777"W	0	0	0
†	15628	90	180.039	9064	7319.28	-7319.92	910.83	550152.8	380499.7	32°02'45.6191"N	104°10'17.2802"W	0	0	0
†	15728	90	180.039	9064	7419.28	-7419.92	910.76	550152.7	380399.8	32°02'44.6295"N	104°10'17.2827"W	0	0	0
†	15828	90	180.039	9064	7519.28	-7519.92	910.7	550152.6	380299.8	32°02'43.6400"N	104°10'17.2852"W	0	0	0
†	15928	90	180.039	9064	7619.28	-7619.92	910.63	550152.6	380199.8	32°02'42.6504"N	104°10'17.2878"W	0	0	0
†	16028	90	180.039	9064	7719.28	-7719.92	910.56	550152.5	380099.8	32°02'41.6608"N	104°10'17.2903"W	0	0	0
†	16128	90	180.039	9064	7819.28	-7819.92	910.49	550152.4	379999.8	32°02'40.6712"N	104°10'17.2928"W	0	0	0
†	16228	90	180.039	9064	7919.28	-7919.92	910.42	550152.3	379899.8	32°02'39.6817"N	104°10'17.2954"W	0	0	0
†	16328	90	180.039	9064	8019.28	-8019.92	910.36	550152.3	379799.8	32°02'38.6921"N	104°10'17.2979"W	0	0	0
†	16428	90	180.039	9064	8119.28	-8119.92	910.29	550152.2	379699.8	32°02'37.7025"N	104°10'17.3004"W	0	0	0
†	16528	90	180.039	9064	8219.28	-8219.92	910.22	550152.1	379599.8	32°02'36.7130"N	104°10'17.3029"W	0	0	0
†	16628	90	180.039	9064	8319.28	-8319.92	910.15	550152.1	379499.8	32°02'35.7234"N	104°10'17.3055"W	0	0	0
†	16728	90	180.039	9064	8419.28	-8419.92	910.09	550152	379399.8	32°02'34.7338"N	104°10'17.3080"W	0	0	0
†	16828	90	180.039	9064	8519.28	-8519.92	910.02	550151.9	379299.9	32°02'33.7442"N	104°10'17.3105"W	0	0	0
†	16928	90	180.039	9064	8619.28	-8619.92	909.95	550151.9	379199.9	32°02'32.7547"N	104°10'17.3130"W	0	0	0
†	17028	90	180.039	9064	8719.28	-8719.92	909.88	550151.8	379099.9	32°02'31.7651"N	104°10'17.3156"W	0	0	0
†	17128	90	180.039	9064	8819.28	-8819.92	909.82	550151.7	378999.9	32°02'30.7755"N	104°10'17.3181"W	0	0	0
†	17228	90	180.039	9064	8919.28	-8919.92	909.75	550151.7	378899.9	32°02'29.7859"N	104°10'17.3206"W	0	0	0
†	17328	90	180.039	9064	9019.28	-9019.92	909.68	550151.6	378799.9	32°02'28.7964"N	104°10'17.3232"W	0	0	0
†	17428	90	180.039	9064	9119.28	-9119.92	909.61	550151.5	378699.9	32°02'27.8068"N	104°10'17.3257"W	0	0	0
†	17528	90	180.039	9064	9219.28	-9219.92	909.55	550151.5	378599.9	32°02'26.8172"N	104°10'17.3282"W	0	0	0
†	17628	90	180.039	9064	9319.28	-9319.92	909.48	550151.4	378499.9	32°02'25.8277"N	104°10'17.3307"W	0	0	0
†	17728	90	180.039	9064	9419.28	-9419.92	909.41	550151.3	378399.9	32°02'24.8381"N	104°10'17.3333"W	0	0	0
†	17828	90	180.039	9064	9519.28	-9519.92	909.34	550151.3	378299.9	32°02'23.8485"N	104°10'17.3358"W	0	0	0
†	17928	90	180.039	9064	9619.28	-9619.92	909.27	550151.2	378200	32°02'22.8589"N	104°10'17.3383"W	0	0	0
†	18028	90	180.039	9064	9719.28	-9719.92	909.21	550151.1	378100	32°02'21.8694"N	104°10'17.3408"W	0	0	0
†	18128	90	180.039	9064	9819.28	-9819.92	909.14	550151.1	378000	32°02'20.8798"N	104°10'17.3434"W	0	0	0
†	18228	90	180.039	9064	9919.28	-9919.92	909.07	550151	377900	32°02'19.8902"N	104°10'17.3459"W	0	0	0
†	18328	90	180.039	9064	10019.28	-10019.9	909	550150.9	377800	32°02'18.9006"N	104°10'17.3484"W	0	0	0
†	18428	90	180.039	9064	10119.28	-10119.9	908.94	550150.9	377700	32°02'17.9111"N	104°10'17.3510"W	0	0	0
†	18528	90	180.039	9064	10219.28	-10219.9	908.87	550150.8	377600	32°02'16.9215"N	104°10'17.3535"W	0	0	0
†	18628	90	180.039	9064	10319.28	-10319.9	908.8	5						

HOLE AND CASING SECTIONS Ref Wellbore: Cicada Unit No. 28H PWB Ref Wellpath: Cicada Unit No. 28H Rev-A.0

ing/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	28	450	422	28	450	0	0	0	0
9.625in Casing	28	2127.66	2099.66	28	2100	0	0	-165.23	192.63
7in Casing	28	8415.58	8387.58	28	8300	0	0	-628.45	732.67
4.5in Liner	8055.87	19690.11	11634.24	7940.29	9064	-628.45	732.67	-11382	908.08

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
(1) Cicada Unit No. 28H FTP	9506.62	9064	-1201.11	751.07	549993	386618	32°03'46.1715"N	104°10'19.0300"W	point
Cicada Unit No. 28H LTP	N/A	9064	-11102	908.08	550150	376718	32°02'8.1926"N	104°10'17.3780"W	point
(2) Cicada Unit No. 28H MP	14459.62	9064	-6151.55	910.08	550152	381668	32°02'57.1809"N	104°10'17.2685"W	point
(3) Cicada Unit No. 28H PBHL	19690.11	9064	-11382	908.08	550150	376438	32°02'5.4216"N	104°10'17.3828"W	point

SURVEY PROGRAM Ref Wellbore: Cicada Unit No. 28H PWB Ref Wellpath: Cicada Unit No. 28H Rev-A.0

Start MD [ft]	End MD [ft]	Pos Unc Model	Wellbore
28	450	OWSG MWD rev2 + HRGM	Cicada Unit No. 28H PWB
450	2200	OWSG MWD rev2 + HRGM	Cicada Unit No. 28H PWB
2200	8500	OWSG MWD rev2 + HRGM	Cicada Unit No. 28H PWB
8500	19690.11	OWSG MWD rev2 + HRGM	Cicada Unit No. 28H PWB

COMMENTS