Form 3160-5
(August 2007)

NMOCD
FEB 22 2019
DISTRICT III

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JAN 29 2019
Farmington Field Office
Bureau of Land Management

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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.*

5. Lease Serial No. **SF-078047**

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No. **Palluche HZMC 1H**

2. Name of Operator **Hilcorp Energy Company**

9. API Well No. **30-039-31138**

3a. Address **382 Road 3100, Aztec NM 87410**

3b. Phone No. (include area code) **505-599-3400**

10. Field and Pool or Exploratory Area **Basin Mancos**

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Surface **Unit B (NWNE), 1042' FNL & 2088' FEL, Sec. 35, T26N, R7W**
Bottomhole **Unit E (SWNW), 1801' FNL & 417' FWL, Sec. 34, T26N, R7W**

11. Country or Parish, State **Rio Arriba , New Mexico**

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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Completion**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water 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 recomplete 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 recompletion 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.)

10/27/2018 Load & PT 5-1/2" production csg to 1500 psi/ 30 min. Test was good. Production csg TOC @ 4000'. SIW w/ pressure. Secured well, SDFD.

10/28/2018 Load, prime equipment retested line to 9900 psi. Tested good . Start pumping on 5-1/2" csg. 1st attempt: 9,000 psi, no leak off. Released pressure & SIW. Secure well, SDFD.

10/31/2018 MIRU AWS 993, FT BOP, test-good. Tally & PU 2-3/8 5.95# P-110 work string. Continue to tally & PU work string. Tagged up 5" on jt #400 @ 12,499. SEstab circ. Continue tally & PU work sting, rotating & circulating down.

Continue on page 2

ACCEPTED FOR RECORD
FEB 20 2019
FARMINGTON FIELD OFFICE
By:

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Christine Brock Title **Operations/Regulatory Technician - Sr.**

Signature Christine Brock Date 1/29/19

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title Date

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

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.

NMOCD

(Instruction on page 2)

11/1/2018 Continue to rotate down from 12,667' to sleeve @ 14,142. PT line to 3500 psi. **Perf 1st stage**. Drop ball & pump down. Pressured to 3300 psi & perf 1st interval - 14,120' - 14,121'. PUH & perf 2nd interval - 14,095' - 14,096'. PUH & perf 3rd interval - 14,070' - 14,071'. PUH & perf 4th interval - 14,045 - 14,046. PUH & perf 5th interval - 14,020' - 14,021'. **All intervals 6 spf = 30 holes.** LD work sting.

11/2/2018 Continue LD work string, RD pwr swivel. ND BOP. NU Frac valve. **RDRR @17:00 hrs.**

11/3/2018 ND frac valve. Press Test Frac valve to 9500 psi/30min. test-good. NU frac stack. PT frac stack to 9500 psi/30min. test-good. SIW, SDFD.

11/8/2018 MIRU Halliburton, Basin WRLN & other services.

11/9/2018 PT fluid line to 9440 psi, test good. **Frac MC Stage 1** w/ 4,000 gals, 7-1/2% HCL, 181,650 gals Slick water at 20-80 bpm, 74,310 #s 100 Mesh sand & 75,156 #'s of 40/70 Sand, 311 fluid bbls Flush. SIW, check WH. RIH w/ WRLN, set **plug @ 14,005'**. **Perf 2nd Stage** w/ 6spf, .37 diam holes @ 13,820'-13,996' = **48 holes**. SIW, check WH. **Frac 2nd Stage** w/ 4,000 gals of 7-1/2 % HCL, 240,450 gals of Slick Water at 20 to 100 bpm, 74,620 #s Of 100 mesh sand & 180,400 #s of 40/70 sand, Flush: 306 fluid bbls, RIH, **set plug @ 13805'**. **Perf 3rd Stage** w/ 6 spf, .37" diam holes @ 13,620'-13,796' = **48 holes**.

11/10/2018 Frac 3rd Stage w/ 4,000 gals of 7-1/2% HCL, 228,600 gals of Slick Water at 20-100 bpm, 75,000#'s 100 Mesh sand & 172,000 #'s 40/70 sand, 298 fluid bbls Flush. **Set plug @ 13,605'** WLM. **Perf 4th stage** w/ 6 spf, .37" diam holes @ 13,420'-13,596' = **48 holes**. **Frac 4th stage** w/ 4,000 gals 7-1/2% HCL, 230,370 gals Slick Water at 20-100 bpm, 74,880 #'s 100 Mesh sand & 175,280 #'s of 40/70 sand, 298 fluid bbls Flush. **Set plug @ 13,405'** WLM. **Perf 5th stage** w/ 6 spf, .37" diam holes 13,220'-13,396' = **48 holes. Frac 5th stage** w/ 4,000 gals 7-1/2% HLC, 233,350 gals Slick Water at 20-100 bpm, 74,720 #'s 100 Mesh sand & 175,980 #'s of 40/70 sand, 293 fluid bbls Flush. **Set plug @ 13,205'** WLM. . **Perf 6th stage** w/ 6 spf, .37" diam holes 13,020'-13,196' = **48 holes. Frac 6th stage (13,020-13,196)** w/ 4,000 gals 7-1/2% HLC, 232,550 gals Slick Water at 20-100 bpm, 74,060 #'s 100 Mesh sand & 175,560 #'s of 40/70 sand, 288 fluid bbls Flush. **Set plug @ 13,005'** WLM. **Perf 7th stage** w/ 6 spf, .37" diam holes 12,820'-12,996'**. Frac 7th stage** w/ 4,000 gals of 7 1/2 % HCL, 220,458 gals of Slick Water at 20 to 100 bpm, 74,840 #s 100 mesh sand & 173,460 #s 40/70 sand, Flush: 284 fluid bbls. **Set plug @ 12,805'** WLM. **Perf 8th Stage** w/ 6spf, .37" diam holes @ 12,620'-12,796**' = 48 shots. Frac 8th Stage** w/ 4,000 gals of 7 1/2 % HCL & 232,050 gals of Slick Water at 20 to 100 bpm, 74,340 #s 100 mesh sand & 173,160 #s of 40/70 sand, Flush: 279 fluid bbls.

11/11/2018 Set plug @ 12,605' WLM. **Perf 9th Stage** w/ 6spf, .37" diam holes @ 12,420'-12,596**' = 48 shots. Frac 9th Stage** w/ 4,000 gals of 7 1/2 % HCL & 228,420 gals of Slick Water at 20 to 100 bpm, 74,640 #s 100 mesh sand & 174,840 #s of 40/70 sand, Flush: 275 fluid bbls. **Set plug @ 12,405'** WLM. **Perf 10th Stage** w/ 6spf, .37" diam holes @ 12,220'-12,396**' = 48 shots. Frac 10th Stage** w/ 3,000 gals of 7 1/2 % HCL & 236,292 gals of Slick Water at 20 to 100 bpm, 74,880 #s 100 mesh sand & 175,740 #s of 40/70 sand, Flush: 271 fluid bbls. **Set plug @ 12,205'** WLM. **Perf 11th Stage** w/ 6spf, .37" diam holes @ 12,020'-12,196**' = 48 shots. Frac 11th Stage** w/ 3,000 gals of 7 1/2 % HCL & 190,550 gals of Slick Water at 20 to 100 bpm, 74,540 #s 100 mesh sand & 90,880#s of 40/70 sand, Flush: 266 fluid bbl. 5,830 slurry bbls. **Set plug @ 12,005'** WLM. **Perf 12th Stage** w/ 6spf, .37" diam holes @ 11,820'-11,996**' = 48 shots. Frac 12th Stage** w/ 3,000 gals of 7 1/2 % HCL & 226,380 gals of Slick Water at 20 to 100 bpm, 74,900 #s 100 mesh sand & 175,660 #s of 40/70 sand, Flush: 262 fluid bbls. **Set plug @ 11,805'** WLM. **Perf 13th Stage** w/ 6spf, .37" diam holes @ 11,620'-11,796**' = 48 shots. Frac 13th Stage** w/ 3,000 gals of 7 1/2 % HCL & 223,398 gals of Slick Water at 20 to 100 bpm, 72,580 #s 100 mesh sand & 173,880 #s of 40/70 sand, Flush: 257 fluid bbl. **Set plug @ 11,605'** WLM. **Perf 14th Stage** w/ 6spf, .37" diam holes @ 11,420'-

11,596' = **48 shots. Frac 14th Stage** w/ 3,000 gals of 7 1/2 % HCL & 218,060 gals of Slick Water at 20 to 100 bpm, 75, 340 #s 100 mesh sand & 174, 520 #s of 40/70 sand, Flush: 253 fluid bbls. **Set plug @ 11,405'** WLM. **Perf 15th Stage** w/ 6spf, .37" diam holes @ 11,220'-11,396' = **48 shots. Frac 15th Stage** w/ 3,000 gals of 7 1/2 % HCL & 213,900 gals of Slick Water at 20 to 100 bpm, 75,360 #s 100 mesh sand & 174,480 #s of 40/70 sand, Flush: 249 fluid bbls. **Set plug @ 11,205'** WLM. **Perf 16th Stage** w/ 6spf, .37" diam holes @ 11,020'-11,196' = **48 shots. Frac 16th Stage** w/ 3,000 gals of 7 1/2 % HCL & 215,880 gals of Slick Water at 20 to 100 bpm, 75,360 #s 100 mesh sand & 174,780 #s of 40/70 sand, Flush: 244 fluid bbls.

11/12/2018 Set plug @ 11,005' WLM. **Perf 17th Stage** w/ 6spf, .37" diam holes @ 10,820'-10,996' = **48 shots. Frac 17th Stage** w/ 3,000 gals of 7 1/2 % HCL & 228,770 gals of Slick Water at 20 to 100 bpm, 74,820 #s 100 mesh sand & 172,400 #s of 40/70 sand, Flush: 240 fluid bbls. **Set plug @ 10,805'** WLM. **Perf 18th Stage** w/ 6spf, .37" diam holes @ 10,620'-10,796' = **48 shots. Frac 18th Stage** w/ 3,000 gals of 7 1/2 % HCL & 219,115 gals of Slick Water at 20 to 100 bpm, 74,980 #s 100 mesh sand & 176,620 #s of 40/70 sand, Flush: 236 fluid bbls. **Set plug @ 10,605'** WLM. **Perf 19th Stage** w/ 6spf, .37" diam holes @ 10,420'-10,596' = **48 shots. Frac 19th Stage** w/ 3,000 gals of 7 1/2 % HCL & 229,236 gals of Slick Water at 20 to 100 bpm, 78,920 #s 100 mesh sand & 176,580 #s of 40/70 sand, Flush: 231 fluid bbls. **Set plug @ 10,405'** WLM. **Perf 20th Stage** w/ 6spf, .37" diam holes @ 10,220'-10,396' = **48 shots. Frac 20th Stage** w/ 3,000 gals of 7 1/2 % HCL & 220,584 gals of Slick Water at 20 to 100 bpm, 76,700 #s 100 mesh sand & 176,760 #s of 40/70 sand, Flush: 226 fluid bbls. **Set plug @ 10,205'** WLM. **Perf 21st Stage** w/ 6spf, .37" diam holes @ 10,020'-10,196' = **48 shots. Frac 21st Stage** w/ 3,000 gals of 7 1/2 % HCL & 224,200 gals of Slick Water at 20 to 100 bpm, 79,500 #s 100 mesh sand & 174,765 #s of 40/70 sand, Flush: 222 fluid bbls. **Set plug @ 10,005'** WLM. **Perf 22nd Stage** w/ 6spf, .37" diam holes @ 9,820'-9,996' = **48 shots. Frac 22nd Stage** w/ 3,000 gals of 7 1/2 % HCL & 214,400 gals of Slick Water at 20 to 100 bpm, 74,320 #s 100 mesh sand & 174,720 #s of 40/70 sand, Flush: 218 fluid bbls. **Set plug @ 9,805'** WLM. **Perf 23rd Stage** w/ 6spf, .37" diam holes @ 9,620'-9,796' = **48 shots. Frac 23rd Stage** w/ 3,000 gals of 7 1/2 % HCL & 212,730 gals of Slick Water at 20 to 100 bpm, 78,760 #s 100 mesh sand & 169,060 #s of 40/70 sand, Flush: 213 fluid bbls. **Set plug @ 9,605'** WLM. **Perf 24th Stage** w/ 6spf, .37" diam holes @ 9,420'-9,596' = **48 shots.**

11/13/2018 Frac 24th Stage w/ 3,000 gals of 7 1/2 % HCL & 202,306 gals of Slick Water at 20 to 100 bpm, 75,000 #s 100 mesh sand & 175,380 #s of 40/70 sand, Flush: 208 fluid bbls. **Set plug @ 9,405'** WLM. **Perf 25th Stage** w/ 6spf, .37" diam holes @ 9,220'-9,396' = **48 shots. Frac 25th Stage** w/ 3,000 gals of 7 1/2 % HCL & 191,810 gals of Slick Water at 15 to 100 bpm, 74,500 #s 100 mesh sand & 174,860 #s of 40/70 sand, Flush: 205 fluid bbls. **Set plug @ 9,205'** WLM. **Perf 26th Stage** w/ 6spf, .37" diam holes @ 9,020'-9,196' = **48 shots. Frac 26th Stage** w/ 3,000 gals of 7 1/2 % HCL & 189,210 gals of Slick Water at 15 to 100 bpm, 75,120 #s 100 mesh sand & 174,320 #s of 40/70 sand, Flush: 200 fluid bbls. **Set plug @ 9,005'** WLM. **Perf 27th Stage** w/ 6spf, .37" diam holes @ 8,820'-8,996' = **48 shots. Frac 27th Stage** w/ 3,000 gals of 7 1/2 % HCL & 166,070 gals of Slick Water at 15 to 100 bpm, 74.520 #s 100 mesh sand & 124,800 #s of 40/70 sand, Flush: 196 fluid bbls. **Set plug @ 8,805'** WLM. **Perf 28th Stage** w/ 6spf, .37" diam holes @ 8,620'-8,796' = **48 shots. Frac 28th Stage** w/ 3,000 gals of 7 1/2 % HCL & 149,226 gals of Slick Water at 15 to 100 bpm, 75,000 #s 100 mesh sand & 124,920 #s of 40/70 sand, Flush: 191 fluid bbls. **Set plug @ 8,605'** WLM. **Perf 29th Stage** w/ 6spf, .37" diam holes @ 8,420'-8,596' = **48 shots. Frac 29th Stage** w/ 3,000 gals of 7 1/2 % HCL & 149,436 gals of Slick Water at 15 to 100 bpm, 74,720 #s 100 mesh sand & 125,140 #s of 40/70 sand, Flush: 186 fluid bbls.

11/14/2018 Set **plug @ 8,405'** WLM. **Perf 30th Stage** w/ 6spf, .37" diam holes @ 8,220'-8,396' = **48 shots. Frac 30th Stage** w/ 3,000 gals of 7 1/2 % HCL & 149,940 gals of Slick Water at 15 to 100 bpm, 76,910 #s 100 mesh sand & 125,240 #s of 40/70 sand, Flush: 182 fluid bbls. **Set plug @ 8,205'** WLM.

Perf 31st Stage w/ 6spf, .37" diam holes @ 8,020'-8,196' **= 48 shots. Frac 31st Stage** w/ 3,000 gals of 7 1/2 % HCL & 139,902 gals of Slick Water at 15 to 100 bpm, 73,000 #s 100 mesh sand & 125,000 #s of 40/70 sand, Flush: 178 fluid bbls. **Set plug @ 8,005'** WLM. **Perf 32nd Stage** w/ 6spf, .37" diam holes @ 7,820'-7,996' **= 48 shots. Frac 32nd Stage** w/ 3,000 gals of 7 1/2 % HCL & 141,370 gals of Slick Water at 15 to 100 bpm, 74,260 #s 100 mesh sand & 126,410 #s of 40/70 sand, Flush: 174 fluid bbls. **Set plug @ 7,805'** WLM. **Perf 33rd Stage** w/ 6spf, .37" diam holes @ 7,620'-7,796' **= 48 shots. Frac 33rd Stage** w/ 3,000 gals of 7 1/2 % HCL & 139,062 gals of Slick Water at 15 to 100 bpm, 74,680 #s 100 mesh sand & 127,600 #s of 40/70 sand, Flush: 169 fluid bbls. **Set plug @ 7,605'** WLM. **Perf 34th Stage** w/ 6spf, .37" diam holes @ 7,420'-7,596' **= 48 shots. Frac 34th Stage** w/ 3,000 gals of 7 1/2 % HCL & 140,196 gals of Slick Water at 15 to 100 bpm, 74,320 #s 100 mesh sand & 126,780 #s of 40/70 sand, Flush: 165 fluid bbls. **Set plug @ 7,405'** WLM. **Perf 35th Stage** w/ 6spf, .37" diam holes @ 7,220'-7,396' **= 48 shots. Frac 35th Stage** w/ 3,000 gals of 7 1/2 % HCL & 147,580 gals of Slick Water at 15 to 100 bpm, 73,120 #s 100 mesh sand & 127,000 #s of 40/70 sand, Flush: 160 fluid bbls. **Set plug @ 7,205'** WLM. **Perf 35th Stage** w/ 6spf, .37" diam holes @ 7,020'-7,196' **= 48 shots. Frac 36th Stage** w/ 3,000 gals of 7 1/2 % HCL & 137,510 gals of Slick Water at 15 to 100 bpm, 72,780 #s 100 mesh sand & 119,060 #s of 40/70 sand, Flush: 156 fluid bbls. SIW. **Set 1st CBP @ 6,400'**. Negative test performed, POOH. 0 psi, good test. **Set 2nd CBP @ 6,300'**. 10 min positive test (2,500 psi), test good. Negative test performed while POOH. SIW

11/15/2018 RD frac operations.

11/16/2018 MIRU Black Hawk 37. Installed tbg hanger w/ 2-way check. ND 10K frac valve. NU 5K BOP assembly w/ single pipe ram. Mud cross, RU BOP & annular. PT BOP, test good. PT single pipe rams w/ 250 psi (5 min) & 5000 psi (10 min), tests good. Tally tbg. NU & test replacement BOP assembly. 250 psi (5 min) & 5000 psi (10 min), tests good. MU BHA, FT downhole motor assembly, tested good. Begin TIH w/ BHA & 2-3/8" 5.95# PH-6 tbg.

11/17/2018 Continue TIH to 1st plug. DO plug @ kill 6300'. Cont TIH to 2nd plug, DO kill plug @ 6,400'. Circ until fluid cleaned up. Continue TIH. DO frac plug #1 @7205' thru #10 @ 9005'. Continued D/O well clean out operations.

11/18/2018 Continue DO frac plugs #11 @ 9205' thru #32 @ 13405'. Cont down & became hung up +/- 13570'. Work pipe & try to free up.

11/19/2018 Continue to work stuck pipe. Worked pipe up hole to 13525'. Establish circ. Freed up pipe/ Circ well clean.

11/20/2018 Open well to FB. Flowing ½ bpm @ 5 psi on 1" choke. Pull tbg assembly. MU gas lift tools BHA.

11/21/2018 Land 207 jts 2-3/8", 4.7# L-80 tbg @ 6,849.6' & XN Nipple w/ 1.79" I.D @ 6816.6'. ND BOP. RDRR @15:00 hrs on 11/21/18.

11/22/2018-12/13/2018 FB well.

12/14/2018 FB well. RD FB crew, released well to production.