

RECEIVED

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
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.

5. Lease Serial No. **NMSF078115**
6. If Indian, Allottee or Tribe Name **Farmington Field Office
Bureau of Land Management**

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator Hilcorp Energy Company		8. Well Name and No. GRENIER 16
3a. Address 382 Road 3100, Aztec, NM 87410	3b. Phone No. (include area code) 505-599-3400	9. API Well No. 30-045-11699
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface Unit P (SESE) 1150' FSL & 1010' FEL, Sec. 06, T31N, R11W		10. Field and Pool or Exploratory Area BASIN DAKOTA / BLANCO MESAVERDE
		11. Country or Parish, State San Juan, New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	RECOMPLETION
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	SUBSEQUENT

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.)

SEE ATTACHED

NMOCD
MAY 31 2019
DISTRICT III

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Amanda Walker		Title Operations/Regulatory Technician - Sr.
Signature		Date 5/20/2019

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date MAY 30 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	FARMINGTON FIELD OFFICE BY:

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.

(Instruction on page 2)

NMOCD

5

Grenier 16
30-045-11699
Recompletion Subsequent

3/8/19: MIRU. SDFWE DUE TO HIGH WINDS.

3/11/19: (SITP: 290, SICP 290, BH 0) BD WELL. ND WH. NU BOP. MIRU WELLCHECK. PT BOP & WH. TST OKAY. TIH, TG @ 7737'. TOH & MIRU TUBOSCOPE. TOH 2 3/8" TBG. PU & TIH SELECT 3 7/8" BIT, CSG SCRAPER & 176 JTS 2 3/8" TBG. SIW. SDFN.

3/12/19: (SICP 300, SITP 300, BH 0) BD WELL. CONT TIH 2/65 JTS 2 3/8" TBG. TOH TBG & BHA. PU & TIH SELECT 4 1/2" CIBP, SETTING TL, 4 1/2" PKR. SET CIBP @ 7550'. CIRC CSG W/108 BBLs. SET PKR @ 7525'. PT CIBP TO 650 PSI FOR 5". TST OKAY. RLS PKR. PT CSH TO 550 PSI FOR 10 ". TST OKAY. TOH W/TBG & PKR SETTING TL. MIRU WL. RUN CBL F/7552' – SURFACE. RDMO WL. SWI. SDFN.

3/13/19: (SICP 0, BH 0) MIRU WELLCHECK. PT CSG FR/SURF – 7550' TO 580 PSI. PRESS FR/580 IN 30 MINS. ND B1 ADPT. NU BOP. SWI. SDFN (HIGH WINDS)

3/14/19: (SICP 0, BH 0) TIH 4 1/2" PKR & 105 JTS 2 3/8" TBG. SET PKR @ 3330'. ISOLATE CSG LEAK. RESULTS FR/PT 5793' – 7550' PT TO 580 PSI & TEST OKAY. 5762' – 5793' PRESS F/580-540 IN 15 MINS. SURF – 5762' PT TO 550 PSI & TST OKAY. TOH 2 3/8" TBG & PKR. SWI. SDFN.

TROUBLE CALL: 3/14/19: EMAIL SENT TO BRANDON @ NMOCD - Per our phone conversation this morning, here is the plan forward on the Grenier 16 (API: 3004511699): *the cement above our intended perf interval (5160') is adequate and no additional squeeze work is required.*the cement below our intended perf interval (5730') is inadequate and will need additional squeeze work. The plan is to perforate at 6000' and attempt to circulate at least 200' above that point via a cement retainer. We will MIT the well following drill out and relog the well *we are currently trying to isolate a potential casing leak that is responsible for a 40# pressure loss over 30 mins. Once we locate the leak, I will contact you again to discuss our plan forward there

3/15/19: (SICP 0, BH 0) MIRU WL. RIH & PERF SQZ HOLES @ 6000' (3 HOLES) & 5700' (3 HOLES). RDMO WL. RIH 4 1/2" PKR & 2 3/8" TBG. SET PKR @ 5730'. PMP DWN TBG, UNABLE TO EST CIRC. RLS PKR. TOH TBG & PKR. TIH 4 1/2" CIRC, TBG & SET CIRC @ 5740'. MIRU CMT. ATT TO EIR @ 2 BPM & 321 PSI W/20 BBLs. UNABLE TO EST CIRC. LIGHT – NO BLOW ON CSG. SQZ CSG W/300 SKS TYPE G CMT (MIXED @ 15.8 PPG, 1.18 CU FT/SK, 177 CU FT) PMP DWN TBG W/60.9 BBLs CMT. DISPLACED DWN TBG W/20.2 BBLs @ 2.3 BPM & 120 PSI. ISIO 16 PSI. STUNG OUT OF CIRC. TOH TBG. REVERSE CIRC CLN W/60 BBLs. EST CIRC W/8.5 BBL. REC 19 BBLs. REC NO CMT. SON TOH TBG & STINGER. SWI. SDFWE.

3/18/19: (SICP 0, BH 0) LD CSG W/35 BBLs. PT CSG TO 500 PSI. PRESS FR/500 – 460 IN 2 MINS). TIH 3 7/8" CONE BIT. TG CMT @ 5700 (SQZ PERFS @ 5700') RU PWR SWL. DO CMT FR/5700' – 5740, CIRC. ATT TO PT CSG TO 250 PSI & BROKE DWN TO 170 PSI. DO CIRC LOSING 5-10 BBL/HR TO UPPER SQZ PERF. CONT DO CMT F/5742' – 6000'. EOT @ 6132'. CIRC CLN. TOH & LD TBG. SWI. SDFN.

3/19/19: (SICP 0, BH 0) CONT TOH W/TBG. TIH W/4 1/2" PKR & 2 3/8" TBG. LD CSG W/40 BBLs. SET PKR @ 5924'. PT LOWER SQZ PERFS TO 580 PSI. PRESS FR/580 – 530 IN 5 MINS. RLS PKR. TOH W/TBG. SET PKR @ 5660'. EIR INTO UPPER SQZ OERFS @ 2 BPM & 200 PSI. RLS PKR. TOH W/TBG & PKR. TIH W/TBG SET CIRC @ 5660'. MIRU CMT EIR @ 2 BPM & 190 PSI W/10 BLS. SQZ CSG W/436 SKS TYPE G CMT (MIXED @ 15.8 PPG, 1.18 CU FT/SK, 514.5 CU FT) PMP DWN TBG W/89.2 BBLs CMT. DISPLACED DWN TBG W/50 BBLs @ 2.3 BPM & 150 PSI. STUNG OUT OF CIRC. TOG TBG. EOT @ 5630' REVERSE CIRC CLN W/50 BBLs. EST CIRC W/20 BBLs. REC 1 BBL CMT. CON TOH W/ TBG & STINGER. SWI. SDFN.

Grenier 16
30-045-11699
Recompletion Subsequent

3/20/19: (SICP 0, BH 0) TIH CONE BIT & TBG. TG CMT @ 5660'. RU PWR SWL. DO CMT FR/5662' – 5700'. TIH W/TBG. EOT @ 5847'. CIRC CLEAN. PT CSG TO 550 PSI. PRESS FR/550 – 250 IN 1 MIN & 250 – 0 IN 6 MIN. TOH TBG & BIT. SWI. SDFN.

3/21/19: (SICP 0, BH 0) TIH TBG. EOT @ 6044'. LD CSG W/6 BBLS. MIRU CMT. CIRC @ 2 BPM & 125 PSI W/4 BBLS. PMP BALANCE PLG #1 W/ 12 SKS TYPE G CMT (MIXED @ 15.8 PPG, 1.18 CU FT/SK, 14.2 CU FT). PMP DWN TBG W/2.4 BBLS CMT DISP DWN TBG W/22.7 BBLS @ 2 BPM & 125 PSI. TOH & LD TBG. EOT @ 5794'. PMP DWN TBG W/6.1 BBLS CMT. DISP DWN TBG W/20.7 BBLS @ 2.5 BPM & 128 PSI. TOH & LD TBG. EOT @ 5308'. REVERSE CIRC CLN W/26 BBLS. REC 0.5 BBLS CMT. PRESS CSG TO 650 PSI W/0.25 BBL & SQZ CMT. ORESS FR/650-450 IN 25 MINS. TOH TBG. RDMO CMT. LD CSG W/ 8 BBLS. PRESS CSG TO 600 PSI & SWI. SDFN.

3/22/19: (SICP 0, BH 0) TIH 3-BLADE BIT & TBG. TG TOC @ 5461'. RU PWR SWL. DO CMT FR/5461' – 5721' CIRC CLN. PT CSG PRESS FR/520-0 IN 10 MINS. CONT DO CMT FR/5721' – 5794'. TG TOC @ 5894'. DO CMT FR/5894' – 6044'. CIRC CLN. RD PWR SWL. SDWE.

3/25/19: (SICP 0, SITP 0, BH 0) TOH W/TBG/ TIH W/PKR & TBG. LD CSG W/10BBLS. SET PKR @ 5724'. PT LWR SQZ PERFS PRESS FR/581 – 540 IN 20 MINS. RLS PKR. TIH W/TBG. SET PKR @ 5826'. PT LWR SQZ PERFS PRESS FR/635 – 591 IN 30 MINS. RLS PKR. TOH W/TBG. SET PKR @ 5688'. PRESS FR/610-607 IN 10 MINS. TST OKAY. RLS PKR. TOH W/TBG & PKR. MIRU WL. RUN CBL FR/7434' – 5460'. RDMO WL. TIH TBG. EOT @ 6044'. SWI. SDFN.

3/26/19: (SICP 0, SITP 0, BH 0) MIRU CMT EQUIP. CIRC @ 2 BPM & 120 PSIG W/3 BBLS. PMP BALANCE PLG #1 W/12 SXS TYPE G CMT (MIXED @ 15.8 PPG, 1.18 CU FT/SX, 14.2 CU FT). PMP DWN TBG W/2.4 BBLS CMT. DISP DWN TBG W/22.7 BBLS @ 2.3 BPM & 90 PSIG. TOH & LD 7 JTS 2-3/8" TBG. EOT @ 5,824'. PMP BALANCE PLG #2 W/32 SXS TYPE G CMT (MIXED @ 15.8 PPG, 1.18 CU FT/SX, 37.7 CU FT). PMP DWN TBG W/6.4 BBLS CMT. DISP DWN TBG W/20.9 BBLS @ 2 BPM & 85 PSIG. TOH & LD 15 JTS 2-3/8" TBG. EOT @ 5,342'. REVERSE CIRC CLN W/30 BBLS. REC 0.25 BBLS CMT. PRESS CSG TO 620 PSIG W/0.25 BBL & SQZ CMT. PRESS FR/620 - 420 IN 2 MIN. FOUND MUDCROSS VLV LEAKING @ WH. PRESS TO 610 PSIG W/.25 BBL & SQZ CMT. PRESS FR/610 - 607 IN 10 MIN. TOH W/TBG. RDMO CMT. SIW. SDFN.

TROUBLE CALL: 3/26/19: UPDATE SENT TO BRANDON @ OCD. STILL HAVE A LEAK AND WE WILL BE ATTEMPTING A SECOND BALANCED PLUG TO TRY & PLUG THE HOLES. GIVEN CMT COVERAGE, WE REQUEST TO GAIN APPROVAL SINCE THE UPPER PERFS ARE IN ZONE IF IT LEAKS AGAIN TO ALLOW US TO PROCEED W/RECOMLETION OF THE WELL. APPROVAL TO PROCEED FORWARD AS LONG AS WE CAN SEAL OFF THE HOLES @ 6000'. BRANDON ALSO CONCURS THAT CMT COVERAGE IS SUFFICIENT TO CONT AND NO FURTHER CBL'S WILL BE REQUIRED.

3/27/19: (SICP 400, BH 0) TIH 3 BLADE BIT & TBG. TG TOC @ 5473'. RU PWR SWL. DO CMT F/5721-6044' CIRC CLN. RD PWR SWL. PT CSG. PRESS FR/605 – 602 IN 15 MINS. TOH TBG & BIT. SWI. SDFN.

3/28/19: (SICP 0, BH 0). JONATHAN KELLY FR/NMOCD ON LOCATION TO WITNESS OPS. MIRU WELLCHECK. PT CSG TO 563 PSIG. PRESS FR/563 - 549 IN 30". TST OK. RDMO WELLCHECK. TIH 4-1/2" CIBP & 184 JTS 2-3/8" TBG. SET CIBP @ 5,800'. TOH & LD TBG & SETTING TL. MIRU BASIN WLU. PERFORATE POINT LOOKOUT IN 2 RUNS (45 SELECT FIRE SHOTS, 1SPF, 0.34 HOLES) AS FOLLOWS: 5722',

Grenier 16
30-045-11699
Recompletion Subsequent

5721', 5720', 5719', 5718', 5697', 5696', 5695', 5608', 5607', 5606', 5605', 5566', 5565', 5564', 5530', 5529', 5528', 5527', 5526', 5512', 5511', 5510', 5496', 5495', 5494', 5493', 5492', 5474', 5473', 5472', 5471', 5470', 5453', 5452', 5451', 5450', 5449', 5448', 5447', 5442', 5441', 5440', 5439', 5438'.

PERFORATE MENELEE IN 2 RUNS (45 SELECT FIRE SHOTS, 1SPF, 0.34 HOLES) AS FOLLOWS: 5392', 5391', 5390', 5380', 5379', 5378', 5377', 5376', 5374', 5373', 5372', 5371', 5370', 5369', 5368', 5367', 5366', 5360', 6359', 5358', 5357', 5356', 5355', 5315', 5314', 5313', 5304', 5303', 5302', 5301', 5300', 5299', 5298', 5285', 5284', 5283', 5266', 5265', 5264', 5263', 5220', 5219', 5218', 5217', 5216'. RDMO WLU. SWI. SDFN.

3/29/19: (SICP 0, BH 0). MIRU BASIN WL. RIH 3-3/4" GR TO 5,750'. RIH & SET FRAC-THRU CIBP @ 5,412'. RIH & SET OPTIMA PERMANENT PKR W/2-7/8" X 6' L-80 TBG SUB & WL RE-ENTRY GUIDE W/RUPTURE DISC IN PLACE @ 5,165'. RDMO WL. PU & TIH & RECOMPLETION HNGR. REMOVE HNGR. SWI. SDFN.

3/30/19: (SICP 0, SITP 0, BH 0). LATCH INTO PKR @ 5,165' & LD TBG HNGR W/20K COMPRESSION. ND BOP. NU FRAC STACK. MIRU WELLCHECK. PT TBG, PKR & FRAC VLV TO 5,500 PSIG FOR 5". INCR TO 6,500' FOR 5". INCR TO 7,500 FOR 30". TST OK. RDMO WELLCHECK. MIRU EXPERT DOWHOLE SLU. RIH W/SPEAR & RUPTURE DISC. RDMO SLU. SWI. RDMO BAYWATER #103. SUSPD RPTS W/O FRAC.

4/25/19: MIRU FRAC EQUIPMENT. FOAM FRAC'D PT LOOKOUT WITH 147,000 LBS 40/70 AND 37,591 GAL SLICKWATER AND 1.29 MILLION SCF N2. 70 QUALITY. AVG RATE = 55 BPM, AVG PSI = 4959. ISIP WAS 0 PSI. FOAM FRAC'D MENELEE WITH 154,680 LBS 40/70 AND 42,443 GAL SLICKWATER AND 1.46 MILLION SCF N2. 70 QUALITY. AVG RATE = 55 BPM, AVG PSI = 5428. ISIP WAS 275 PSI. 15 MINUTE SIP WAS 73 PSI. RDMO.

5/2/19: MIRU. (SITP 265, SICP 0, BH 0) ND FRAC STACK. NU BOP. MIRU WELLCHECK. PT & CHART BOP & WH. LOW 250 PSIG, HIGH 2,000 PSIG. TST OK. REMOVE HNGR. TOH & LD TBG SUBS, TBG, & LATCH ASSEMBLY. SWI. SDFN.

5/3/19: (SICP 265, BH 0). NU ANNULAR. TIH, TG PKR @ 5172'. RU PWR SWL. BRK CIRC W/AFU. MILL OVER PKR CIRC CLEAN. PU & TIH W/TBG. TG PKR @ 5407'. TOH W/TBG & BHA. TIH SPEAR, BUMPER SUB, JARS, & TBG. SWI. SDFN.

5/4/19: (SICP 220, SITP 0, BH 0). CONT TIH TBG. WRK SPEAR INTO PKR. TOH TBG, BHA & PKR. TIH MILL, BIT SUB, TBG. TG FRAC PLG @ 5,412'. RU PWR SWIVEL. BRK CIRC W/AFU. DO FRAC PLG @ 5,412'. TIH TBG. TG REMAINDER OF FRAC PLG @ 5,680' (120' FILL, CIBP @ 5,800'). DO REMAINDER OF FRAC PLG & CO FILL FR/5,681' - 5,750' (2.5 HRS). RD PWR SWIVEL. TOH 20 JTS 2-3/8". EOT @ 5,125'. SWI. SDFN. TRAVEL HOME.

5/5/19: (SICP 320, SITP 0, BH 0) TIH TBG. RU PWR SWL. BRK CIRC W/AFU. CO FILL FR/5,750' - 5,800'. TG CIBP @ 5,800'. DO TRASH ON CIBP. CIRC CLN. REC TR SD IN 5 GAL BUCKET TEST. STAGE IN HOLE TBG. TG REMAINDER OF CIBP @ 7,531'. DO REMAINDER OF CIBP (1.5 HRS). CIRC CLN. TOH TBG. SWI. SDFN. TRAVEL HOME.

5/6/19: (SICP 300, SITP 0, BH 0). BD WELL. TOH TBG & BHA. TIH JUNK MILL, BIT & TBG. TG CIBP @ 7,550'. RU PWR SWIVEL. BRK CIRC W/AFU. DO TRASH & CIBP @ 7,550'. CIRC CLN. TIH TBG. TG REMAINDER OF CIBP @ 7,740' (PBSD). CIRC CLN. TOH TBG & LD BHA. SWI. SDFN. TRAVEL HOME.

Grenier 16
30-045-11699
Recompletion Subsequent

5/7/19: (SICP 300, BH 0). BD WELL. TIH W/242 JTS 2 3/8" 4.7# J-55 TBG. LD TBG. EOT @ 7,657'. SN @ 7,656'. **PBTD @ 7740'**. ND BOP. NU WH W/B-2 ADPT. PMP 5 BBL PAD. DROP BALL. PT TBG TO 500 PSIG. TST OK. PMP OFF CHK @ 850 PSIG. RWTPD.

RDRR @ 1200 hrs ON 5/7/19