

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

5. Lease Serial No.
NMSF077282

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

8. Well Name and No.
GRENIER A 4E

9. API Well No.
30-045-24887-00-S1

10. Field and Pool or Exploratory Area
BASIN DAKOTA

11. County or Parish, State
SAN JUAN COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
HILCORP ENERGY COMPANY
Contact: AMANDA WALKER
E-Mail: mwalker@hilcorp.com

3a. Address
1111 TRAVIS STREET
HOUSTON, TX 77002
3b. Phone No. (include area code)
Ph: 505.324.5122

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 26 T30N R10W SENW 1660FNL 1590FWL
36.785770 N Lat, 107.856900 W Lon

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"/> Hydraulic Fracturing	<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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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.

GRENIER A 4E
3004524887
BLANCO MESAVERDE

PLEASE SEE ATTACHED

WMOCD
AUG 15 2019
DISTRICT III

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

**Electronic Submission #476248 verified by the BLM Well Information System
For HILCORP ENERGY COMPANY, sent to the Farmington
Committed to AFMSS for processing by JOHN HOFFMAN on 08/14/2019 (19JAL0011S)**

Name (Printed/Typed) AMANDA WALKER

Title OPERATIONS REGULATORY TECH

Signature (Electronic Submission)

Date 08/01/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By **ACCEPTED**

JOHN HOFFMAN
Title PETROLEUM ENGINEER

Date 08/14/2019

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

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 ****

AY

NO

Grenier A 4E
30-045-24887
Lease: NMSF077282
Recompletion Sundry

6/5/2019: (CP – 40 PSI, TP – 60 PSI, SIBHP – 0 PSI) MIRU. CK WH PRESS. SL, SDFN.

6/6/2019: (SICP – 200 PSI, SITP – 200 PSI, SIBHP – 0 PSI) CH WH PRESS. FOUND BATTERIES WERE STOLEN FROM ACCUM & RIG PUMP. W/O BATTERIES. ND WH, NU BOP. & TEST. LD TBG HANGER. TOO H. RECOVERED 90 JTS, LD ALL TBG. TALLY & PU OVERSHOT W/6 1/4" GUIDE. TIH & TAG LINER TOP @ 2809'. TOO H & PU 3 3/4" OVERSHOT & GRAPPLE. TIH & TAG TOP OF FISH @ 2905'. LATCH FISH. WORK FISH TO 55K, 21K OVER STRING WT. DECISION MADE TO FREE POINT & CUT IN AM. SIW, SL.

6/7/2019: (SICP – 200 PSI, SITP – 0 PSI, SIBHP – 0 PSI) CH WH PRESS. BWD. RU CUTTERS WL. RIH W/FREEPOINT. WORKED THRU TIGHT SPOTS BUT COULD NOT GET PAST 3673'. POOH. RIH W/JET CUTTER. COULD NOT GET PAST 3773'. CUT TBG @ 3763'. TOO H W/858' OF FISH. WAIT ON JARS & DC'S. TIH & TAG FISH @ 3763'. DRESS TOP OF FISH W/CONTROL. LATCH FISH. JAR ON FISH UNTIL FREE. TOO H TO COLLARS & FISHING TOOLS. LD FISHING TOOLS. SIW, SL, SDFN.

6/8/2019: (SICP – 50 PSI, SITP – 0 PSI, SIBHP – 0 PSI) CH WH PRESS. BWD. START TO LD FISH. FOUND WET STRING FULL OF DRIP. WO MUD BUCKET & VAC TRUCK. TOO H & LD FISH. PU 4 1/2" STRINGMILL & TIH W/TBG. TIH TO 7025'. TOO H & LD STRINGMILL. PU 4 1/2" CIBP & 4 1/2" PACKER. TIH & SET CIBP @ 7000'. PUMP 50 BBLS WATER. LD 1 JT. SET PACKER & PT CIBP TO 1500 PSI/15 MIN. TEST FAILED. PRESS DROPPED 100 PSI EVERY 5 MIN FOR 15 MIN. RELEASE PACKER & LOAD CSG W/WATER. PT CSG 7000' TO SURF TO 625 PSI/15 MIN. TST GOOD. SIW, SL, SDWE.

6/10/2019: (SICP – 0 PSI, SITP – 0 PSI, SIBHP – 0 PSI) CH WH PRESS. OPEN WELL. PU 10' PUP JT. SET PACKER & PT CIBP TO 1500 PSI/15 MIN. GOOD TEST. RELEASE PACKER & LOAD CSG W/WATER. PT CSG F/7000' TO SURF TO 620 PSI/15 MIN. TST GOOD. TOO H & LD PACKER. RU BASIN WL. RIH & RUN CBL F/7000' TO SURF W/500 PSI PRESSURE. RD BASIN WL. RU WELLCHECK. PT CSG TO 550 PSI/30 MIN. TST GOOD. WAIT ON ORDERS. SIW, SL, SDFN.

6/11/2019: EMAIL SENT TO BLM TO REQUEST INCREASE ON PT FOR THE WB & FRAC STACK (BLM COA'S PREVENTED HIGHER PRESSURE). REQUEST MADE TO PT TO 3600 PSI, WITH IS 87% OF BURST PRESSURES OF THE 7-5/8" CSG. APPROVAL GIVEN BY JIM LOVATO @ BLM TO ALLOW FOR THE INCREASE PRESSURE TEST.

6/11/2019: (SICP – 0 PSI, SITP – 0 PSI, SIBHP – 0 PSI) CH WH PRESS. OPEN WELL. TIH W/6- 3 1/8" DC'S. LD DC'S. PU 4 1/2" CIBP. TIH & SET @ 5250'. PT CIBP TO 1500 PSI/15 MIN. LD 5250' OF TBG. ND BOP. ND 2K WH. NU 3K X 5K WH. PT VOID TO 1700 PSI. NU FRAC STACK. PT FRAC STACK & CSG TO 3600 PSI (PRESSURE APPROVED BY BLM). PT HELD FOR 17 MIN THEN SLOWLY DROPPED 500 PSI THE NEXT 13 MIN. SIW, SL, SDFN.

6/11/2019: EMAIL SENT TO BRANDON @ NMOCD AND JOE @ BLM TO NOTIFY OF FAILED BH TEST. REQUEST TO RIH W/PKR AND BEGIN HOLE HUNTING. ONCE HOLE IS DISCOVERED WE WILL REACH OUT TO BLM AND OCD WITH PATH FORWARD.

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6/12/2019: (SICP – 0 PSI, SITP – 0 PSI, SIBHP – 0 PSI) CH WH PRESS. OPEN WELL. ND FRAC STACK. NU BOP & TEST. PU 7 5/8" STRINGMILL & TBG. TIH TO TOL @ 2809'. TOO H & LD STRINGMILL. PU 7 5/8" PACKER. TIH & SET @ 2803'. ATT TO PT LINER TOP & 4 1/2" CSG F/2803' T/5250' TO 3600 PSI. TEST FAILED. PRESS DROPPED 550 PSI IN 30 MIN. PT ABOVE PACKER 2803' TO SURF TO 2800 PSI/30 MINUTES. TST GOOD. TOO H & LD 7 5/8" PACKER. TIH W/4 1/2" PACKER & ATT TO SET 1 JT INTO 4 1/2" CSG @ 2831'. PACKER WOULD NOT SET. MOVED PACKER DOWN 1 MORE JT & SET @ 2862'. PT BELOW PACKER, 2862' TO 5250' TO 3600 PSI. TST GOOD. RELEASE PACKER. PT CSG T/ 600 PSI F/5250' TO SURF. TST GOOD. SIW, SL, SDFN.

6/12/2019: CALL TO JOE @ BLM AND BRANDON @ NMOCD. UPDATED TO LET BOTH AGENCIES KNOW, "We ran 2 packers into the wellbore to test each casing string separately. (4-1/2" liner top at 2,809') First, we ran a 7-5/8" pkr and set it at 2800'. We tested the 7-5/8" csg on the backside of the pkr to 2800 psi and it help with no issues. Second, we ran a 4-1/2" pkr in and set at +/-2862'. We tested the 4-1/2" from the pkr to the lower CIBP at 5250' to 3600 psi- it passed no problem. We suspect a minor leak on the 4-1/2" csg liner at higher test pressures. (The cement bond looks good as per both CBLs). We then tested the backside of the 4-1/2" pkr (2862' to surface) to 600 psi- it passed with no issues." PERMISSION GIVEN PROVIDING THAT WE RUN AN MIT OF THE 4-1/2" LINER HANGER, ONCE APPROVED WE WILL CONT W/RC PROJECT.

6/13/2019: (SICP – 0 PSI, SITP – 0 PSI, SIBHP – 0 PSI) TTL. PJSM. CH WH PRESS. OPEN WELL. PT CSG FROM 5250' TO SURF TO 550 PSI/30 MIN & RECORD ON CHART. TST GOOD. BRANDON POWELL W/NMOCD APPROVED TO TEST WITHOUT A WITNESS. LD ALL TBG & PACKER. SPOT IN FRAC STRING. SIW, SL, SDWE.

6/17/2019: (SICP – 0 PSI, SITP – 0 PSI, SIBHP – 0 PSI) CH WH PRESS. OPEN WELL. RU BASIN WL. PERF'D AS FOLLOWS: (3 RUNS, 1SPF, 0.34 HOLES) 4614'-4616', 4668'-4670', 4732'-4734', 4752'-4756', 4802'-4808', 4813'-4815', 4840'-4844', 4854'-4658', 4861'-4863', 4897'-4900', 4926'-4928', 4951'-4953', 4984'-4988', 4996'-5002', 5010'-5012', 5020'-5026', 5036'-5038', 5045'-5048', 5072'-5076', 5118'-5120', 5176'-5169', 5188'-5192'. RD WL. TIH & SET PACKER & LAND FRAC STRING @ 4514.00'. ND BOP. NU FRAC STACK. PT FRAC STRING & FRAC STACK TO 9000 PSI. TST GOOD. RU EXPERT SL. RIH & BREAK CERAMIC DISC. POOH & RD SLICK LINE. SIW, SLI, SDFN.

7/3/2019: MIRU FRAC EQUIP. PUMP PER DESIGN. PUMP 70% Q FOAM FRAC WITH 300,840# 40/70 SAND. FORMATION BROKE @ 1450. MAX PSI 8425. AVG PSI 4950. MAX BH RATE, 5607 BPM AVG BH RATE 55.1, BPM ISIP VACUUM , TOTAL N2, 2313604 SCF TOTAL BBL 1634, WELL ON VACUUM , SI, RD FRAC EQUIP.

7/12/2019: (TBG 380 PSI. BH 0 PSI CSG 0 PSI.) MIRU. RU WC. BLOW FRAC STACK DOWN. ND FRAC STACK. NU BOP. TEST BOP PIPE AND BLIND RAMS TO 250 PSI LOW AND 2000 PSI HIGH. RELEASE 4-1/2" AS1X PACKER. PMP A 40 BBL KILL DOWN THE TUBING. TOO H W/2-7/8" & PACKER. TIH W/3-7/8" MILL TO 2446'. SWI. SL.

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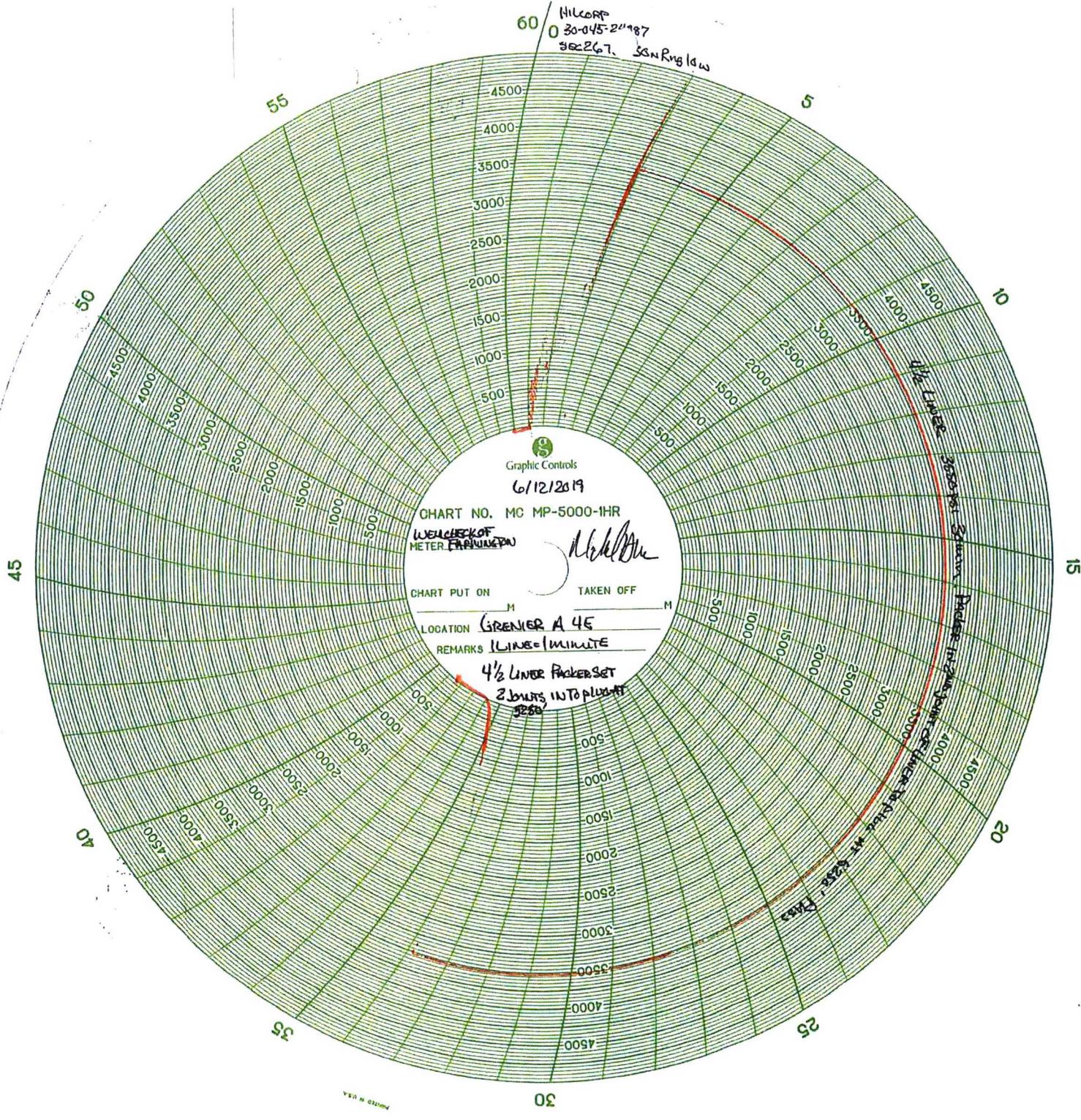
7/13/2019: (CASING 340 PSI. BH 0 PSI, TUBING 0 PSI). OPEN WELL TO FLOW BACK TANK. TIH F/2446' T/TAG DEPTH @ 5227'. OBTAIN MV GAS SAMPLES. RU PWR SWVL. BRING ON AIR FOAM MIST. W/1.5 GALLON PER HOUR CORROSION INHIBITOR AND 5 GALLON PER HOUR BAKER RE33265 FOAMER. SWITCHED TO BACHMAN F485 AT 1.25 GALLONS PER HOUR. CO FILL F/5227' TO CIBP @ 5250'. DO CIBP @ 5250'. CIRC HOLE CLEAN. SHUT AIR UNIT DOWN. PU TBG. TIH TO 2ND/LAST CIBP @ 7000'. RU PWR SWL. BRING ON AIR FOAM MIST. EST CIRC @ 7000'. COULD NOT CIRCULATE HOLE AT CURRENT DEPTH WITH ONE AIR UNIT. TOO ABV TOP PERF @ 4614'. SWI. SL. SDFN.

7/14/2019: (CSG 300 PSI. BH 0 PSI, TBG 0 PSI). OPEN WELL TO FLOW BACK TANK. TIH F/4614' TO CIBP @ 7000'. TAGGED NO FILL ON CIBP. RU PWR SWVL. BRING ON 2 AIR UNITS AT 2950 CFM WITH 14 BBL PER HOUR MIST AND 3 GALLON PER HOUR CORROSION INHIBITOR AND 1.5 GALLONS PER HOUR FOAMER. BROKE CIRC. DO CIBP @ 7000'. CIRC HOLE @ 7031'. SHUT AIR UNITS DOWN. TIH AND TAG FILL @ 7252'. BRING AIR FOAM UNITS ON. CO TO NEW PBTD @ 7255'. CIRC CLEAN. SHUT AIR UNITS DOWN. RD PWR SWL. TOO W/3-7/8" JUNK MILL. TIH W/227 JTS OF 2-3/8" 4.7# J-55 PROD TBG. SWI. SL. SDFN.

7/15/2019: (CSG 270 PSI. BH 0 PSI, TBG 0 PSI). OPEN WELL TO FLOW BACK TANK. CONT TIH F/5422" T/ PBTD @ 7255'. TAGGED NO FILL. LAY DOWN TAG UP JTS. LAND TUBING AT 7158.27'. W/SN @ 7156.31'. ND BOP. NU WH. PMP 6 BBL WATER PAD DOWN THE TBG. DROP PUMP OFF BALL. BRING ON AIR UNITS. PT TB TO 500 PSI, TST GOOD. PUMP X/CK OFF AT 1200 PSI. BLOW WELL AROUND. SWI.

RDRR AT 1330 hrs ON 7/15/2019.

60 0 HILCORP
30-045-21187
Sec 267. SSN Rng 14w



Graphic Controls

6/12/2019

CHART NO. MC MP-5000-1HR

WENCKE OF
METER FRACTION

Handwritten signature

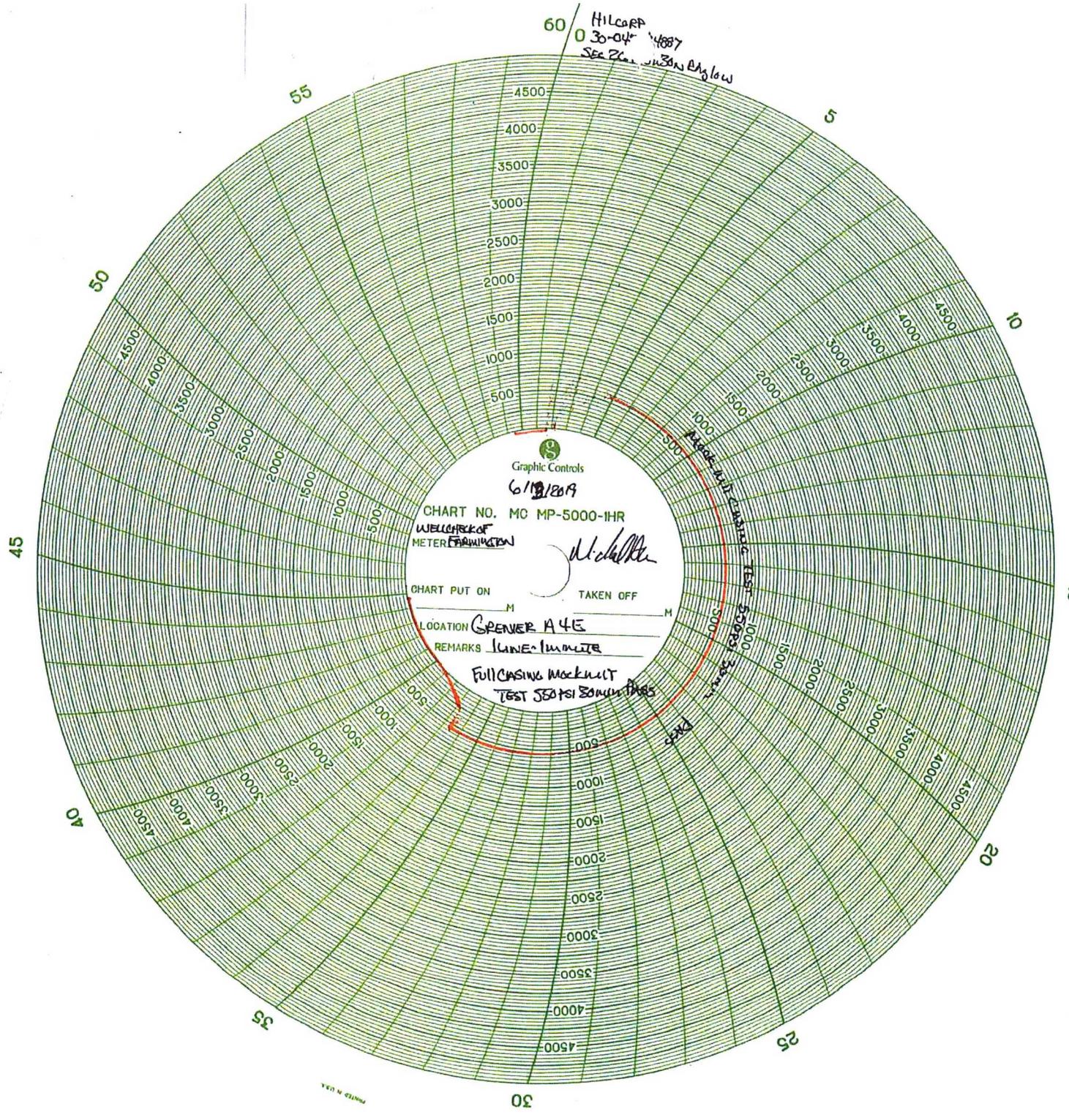
CHART PUT ON _____ M TAKEN OFF _____ M

LOCATION GREENER A 45

REMARKS 1 LINE = 1 MINUTE

4 1/2 LINES PACKER SET
2 BURS INTO PLANT
3288

60 HILCAP
30-04-1987
See 26a in 30a R/L low



Graphic Controls

6/18/87

CHART NO. MC MP-5000-1HR

WELCHER OF
METER FRANKTON

CHART PUT ON

TAKEN OFF

LOCATION GRENER A 4E

REMARKS LINE LIMITED

FULL CASING MOCKUP
TEST 50 PSI 30 MINUTES

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