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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

Farmington Field Office

NMSF078389A

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

2. Name of Operator

Hilcorp Energy Company

3a. Address

382 Road 3100, Aztec, NM 87410

3b. Phone No. (include area code)

505-599-3400

5. Lease Serial No.

6. Indian, Allottee or Tribe Name

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

8. Well Name and No.

SAN JUAN 32-9 UNIT 21

9. API Well No.

30-045-10859

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

Surface Unit M (SWSW) 990' FSL & 990' FWL, Sec. 11, T31N, R10W

10. Field and Pool or Exploratory Area

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

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other

Workover Operations

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.)

Please see attached

NMOC

FEB 01 2019

DISTRICT III

ACCEPTED FOR RECORD

JAN 31 2019

FARMINGTON FIELD OFFICE

By:

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

Amanda Walker

Title Operations/Regulatory Technician - Sr.

Signature

Date

1/9/2019

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.

(Instruction on page 2)

San Juan 32-9 Unit 21
30-045-10859
Subsequent
Workover Operations

12/11/2018: MIRU. RD HH. UNSEAT ROD PUMP. LD 1 ROD. SDFN

12/12/2018: TOO H W/RODS. ND WH. NU BOPE. PT RAMS. TST GOOD. PULL & LD TBG HNGR. TAG 22' OF FILL @ 5663'. RU TUBOSCOPE. TOO H 2 3/8" TBG. RD TUBOSCOPE SCANNING EQUIPMENT. SIW. SL. SDFN.

12/13/2018: PU PRICE TYPE MUD ANCHOR & TIH PU REPLACEMENT TBG. UL H2O FROM WELL @ 4490', RECOVERED 27 BBLS OF H2O. UL H2O FROM WELL @ 4957', RECOVERED 9 BBLS OF H2O. CIRC WELL @ 4490' W/AIR. WELL MAKING 70 -50 BBLS OF H2O/HR. RETURNED 153 BBLS H2O. SIW. SL. SDFN.

12/14/2018: TOO H. LD MUD ANCHOR. PU PLUG & PKR, TIH. SET RBP @ 4517'. SET PKR @ 4485'. TST 600 PSI, FOOD TEST. RBP @ 4517' LOAD HOLE W/57 BBLS OF H2O. CIRC OUT AIR. ATTEMPT TO TST FROM SURFACE TO RBP, NO TST. RETURNS WERE BLACK H2O W/FORMATION SAND. TOO H. SIW. SL. SDWE.

12/17/2018: ISOLATE CSG LEAK. 1511' TO 1706'.

RBP PACKER

4517'	2500'	DOWN TBG	GOOD
4517'	2374'	DOWN TBG	GOOD
4517'	600'	DOWN CSG	GOOD
4517'	1251'	DOWN CSG	GOOD
4517'	1901'	DOWN CSG	FAIL
4517'	1901'	DOWN TBG	GOOD
4517'	1576'	DOWN TBG	FAIL
4517'	1771'	DOWN TBG	GOOD
4517'	1706'	DOWN TBG	GOOD
4517'	1641'	DOWN TBG	FAIL
4517'	1673'	DOWN TBG	FAIL
4517'	1511'	DOWN CSG	GOOD
4517'	1543'	DOWN TBG	FAIL

ALL PT WERE BETWEEN 500 & 600 PSI. AFTER TEST @ 2374' REPLACED COMPRESSION PKR W/TENSION PKR. SET PKR @ 1511' & ATTEMPT TO CIRC UP 7" CSG. CIRC OUT DRILLING MUD W/48 BBLS OF TREATED H2O UNTIL RETURNS WERE CLEAN. DO WH & CHECK THAT BH VALVE IS NOT PLUGGED. TOO H & LD PKR. PU RETRIEVING HEAD & TIH TO 1706' BOTTOM OF CSG LEAK. UNLOAD H2O & CIRC WELL @ 1706' W/AIR. WELL MAKING 50 - 60 BBLS H2O PER HOUR. AFTER SHORT TEST VERIFY H2O IS COMING FROM CSG LEAK AND NOT FROM PERFS. SIW. SL. SDFN.

12/18/2018: EMAIL SENT TO BRANDON POWELL @ NMOC D AND JACK SAVAGE @ BLM. UPDATES ON PROGRESS. PRIMARY FINDING 4 1/2" CSG PARTIALLY COMPROMISED BETWEEN 1511' & 1706'. ABLE TO CIRC TO SURFACE ON 7" X 4 1/2" ANNULUS. BH PRESSURE IS ZERO WITH NO COMMUNICATION W/CSG/INTER. 4 1/2" CSG WAS RUN IN 94 AFTER THE SQUEEZE THROUGH 7" CSG @ 2410'. Our remediation plan: 1. Set a cast iron bridge plug ~50' below the bottom hole in the 4-1/2" @ 1760'. 2. Set our cement retainer ~50' above the top hole in the 4-1/2" @ 1460'. 3. Pump cement until we realize good returns to surface on the 7" x 4-1/2" annulus. 4. Shut the 7" x 4-1/2" annulus at surface and continue to pump cement to try and push cement out through any issue in the 7" casing. 5. At the completion of the squeeze, shut the well in under pressure and allow cement to cure overnight. 6.

San Juan 32-9 Unit 21
30-045-10859
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Once cured, drill out cement down to the CIBP. 7. Pressure test the casing to verify success of squeeze.
8. Drill out CIBP. 9. Return well to production.

12/18/2018: TIH TO 3500'. UNLOAD H2O W/AIR. TIH TO 4517', RELEASE RBP & TOO. PU CIBP & TIH, SET @ 1765'. TOO. PU CMT RETAINER & TIH, SET RETAINER @ 1446'. MIRU CMT TRUCKS. SIW. SL. SDFN.

12/19/2018: MIX & PMPC MT SQUEEZE IN PROD CSG HOLES, 1511' TO 1706'. PMP 410 SKS 84 BBLS CLASS G NEAT CMT, 15,8#. EST CIRC DOWN 4 1/2" CSG & UP 7" CSG W/28 BBLS OF H2O, PMP 43 BBLS OF CMT W/H2O CUT CMT TO SURFACE. CONT TO PMP ANOTHER 31 BBLS OF CMT @ 1 BPM RETURNING 2 OR MORE BPM OF H2O CUT CMT. SD PUMP TRUCK. WELL CONT TO FLOW H2O CUT CMT. CONT PMP 10 MORE BBLS OF CMT & CLOSING BACKSIDE CSG VALVE MAINTAINING 70 PSI PMPING PRESSURE W/CSG VALVE CLOSED. DISPLACE W/4.8 BBLS MAINTAINING 900 PSI ON CSG DURING DISPLACEMENT SQUEEZING 14 BBLS OF CMT. STING OUT OF RETAINER LD 2 JOINTS OF TBG & REVERSE OUT RETURNING 1/4 BBLS OF CMT. LEAVE 50' OF CMT ON TOP OF RETAINER. TOO W/TBG. FLUSH OUT LINES. SIW. SL. SDFN.

12/20/2018: MIRU HOT SHOT TRAILER. PU 3 3/4" TWISTER BIT, TIH PU 6- 2 3/8" DRILL COLLARS. TIH W/TBG/ TAG CMT @ 1396'. LD 13 JTS OF TBG, TIH W/7 STANDS OF TBG. PU & RU PWR SWVL. DRILL CMT & CMT RETAINER FROM 1396' TO 1665'. MOST CMT DRILLED HARD, SOFT SPOT FROM 1580' TO 1695'. TOO 5 STANDS. SIW. SL. SDFN.

12/21/2018: TIH 5 STANDS TO 1665'. PU PRW SWVL. DRILL CMT FROM 1665' TO 1708'. FO OF CMT. CIRC CLEAN. PT CSG TO 540 PSI FOR 30 MINS W/RIG PMP, NO LEAK OFF. TOO. MIT ON 4 1/2" PROD CSG. CHARTED TEST 580 PSI FOR 30 MINS, GOOD TEST. TEST WITNESSED BY JOHN DURAM W/NMOCD. PU JUNK MILL & TIH TO 1706'. UNLOAD H2O, EST CIRC @ 1706' W/AIR MIST. DRILL CIBP. TIH TO 4481'. UNLOAD H2O FROM WELL. RETURNED 5 BBLS. SIW. SL. SDFN.

12/22/2018: TIH TAG 53' OF FILL @ 5630'. PU SWVL. EST CIRC. CO FROM 5630' TO 5683'. DRILL CIBP JUNK & CO FILL. CIRC UNTIL SAND IS DOWN TO TRACE. TOO LD DRILL COLLARS & JUNK MILL. PU BHA & TIH W/175 JTS OF 2 3/8" 4.7# J-55 TBG. EOT @ 5619, SN @ 5595', PBD @ 5683'. RD SWVL. ND BOPE, NU WH. SIW. SL. SDFN.

12/23/2018: DOWN HOLE PUMP ASSEMBLY & ROD STRING. 1- 1.315" X 1' STRAINER NIPPLE. 1- 2" X 1 1/4" X 14' X 18' RHAC-Z HVR SN # HIL 089 1- 3/4" X 8' GUIDED PONY ROD 1- 3/4" X .50' SHEAR TOOL (21K) 1- 1 1/4" X 25' SINKER BARS (25') 41- 3/4" X 25' GUIDED RODS (1025' WITH 5 PER) 48- 3/4" X 25' SLICK RODS (1200'). 132- 3/4" X 25' GUIDED RODS (3300' WITH 5 PER) 1- 6' PONY ROD. 1- 1 1/2" X 22' POLISHED ROD W/ LINER. PICK UP REBUILT 2" X 1 1/4" X 14' X 18' RHAC-Z HVR SN # HIL 089. TRIP IN HOLE WITH RODS, SEAT PUMP, SPACE OUT, LOAD TUBING WITH 18 BBLS OF WATER, PRESSURE TEST TO 1000 PSI. GOOD TEST. BLEED DOWN PRESSURE TO 100 PSI, LONG STROKE PUMP TO 600 PSI, GOOD TEST. HANG OFF RODS ON PUMPING UNIT. RUN PUMPING UNIT, GOOD PUMP ACTION. RDRR @ 1200hrs ON 12/23/2018.

Well Name: SAN JUAN 32-9 UNIT #21

API / UWI 3004510859	Surface Legal Location 011-031N-010W-M	Field Name BLANCO MV (PRO #0078	Route 0403	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 6,231.00	Original KB/RT Elevation (ft) 6,241.00	KB-Ground Distance (ft) 10.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

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