Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
DEC 18 2018
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-078049-A**

6. If Indian, Allottee or Tribe Name:

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

1. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other

8. Well Name and No.: **Bolin Hardie 1**

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

9. API Well No.: **30-045-20126**

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 Dakota**

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*: **Unit D (NWNW), 880' FNL & 1170' FWL, Sec. 34, T29N, R8W**

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	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[X] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[ ] Other
BP	[ ] Change Plans	[X] 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.)

The subject well was P&A'd on 12/04/2018 per the attached final activity report and plugged wellbore diagram.

NMOCD
FEB 01 2019
DISTRICT III

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: 12/18/18

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by: Sarah N Swift

Title: Supv NRS

Date: 12/21/18

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: FFO

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

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Printed on 12/5/2018

Hilcorp Energy Company
PO Box 4700
Farmington, NM 87499

PLUS WELL SERVICE SINCE 1992
P.O. Box 1979, Farmington, NM 87499
(505) 325-2627

Name: Bolin Hardie 1
API:30-045-20126, 12/05/2018

Well Plugging Report

Plugging Detail

Plug #1 - (Dakota PERF/Top) Mix & pump 16sxs (15.8 PPG, 1.15 Yield, 18.4 CUFT, 3.27 BBL Slurry) Class G Cement from 7190' – 6985' TOC

Plug #1A - (Top off) Mix & pump 16sxs (15.8 PPG, 1.15 Yield, 18.4 CUFT, 3.27 Slurry) Class G Cement from 7117' – 6912'

Plug #2 – (Gallup/Mancos Tops) Mix & pump 60sxs (15.8 PPG, 1.15 Yield, 69 CUFT, 12.28 BBL Slurry) Class G Cement from 6168' – 5398' TOC.

Plug #3 – (Mesaverde/Chacra Top) Mix & pump 72sxs (15.8 PPG, 1.15 Yield, 82.8 CUFT, 14.7 BBL Slurry) Class G Cement from 4621' – 3696' TOC.

Plug #4 & #5 Combined – (CSG Shoe/Pictured Cliffs/Fruitland Tops) Mix & pump 64 SXS, (15.8 PPG, 1.15 Yield, 73.6 CUFT, 13.1 BBL Slurry) Class G Cement from 3248' – 2426' TOC.

Plug #6A – (Kirtland Top) Mix & pump 13sxs (15.8 PPG, 1.15 Yield, 14.9 CUFT, 2.6 BBL Slurry) Class G Cement from 2217' – 2050'

Plug #6B – (Ojo Alamo Top) Mix & pump 20sxs (15.8 PPG, 1.15 Yield, 23 CUFT, 4 BBL Slurry) Class G Cement from 2052' – 1796' TOC.

Plug #7 – (Nacimiento Top) Mix & pump 55sxs (15.8 PPG, 1.15 Yield, 63.2 CUFT, 11.2 BBL Slurry) Class G Cement from 684' – 532'

Plug #8 – (Surface) Mix & pump 178sxs (15 PPG, 1.15 Yield, 204.7 CUFT, 36.4 BBL Slurry) Class G Cement from 259' – 0' TOC.

Top-Off – Mix & pump 51sxs (15.8 PPG, 1.15 Yield, 58.6 CUFT, 10.4 BBL Slurry) Class G Cement from 77' – 0'

Work Detail

PUX	Activity
11/26/2018	
P	HSM on JSA.
P	Check PSI, TBG-N/A, 4-1/2" CSG-0, 7" INTERM.-0, BH-0 PSI. RU Relief Lines, Open Well to pit.
P	Spot in Rig & Equip. RU Daylight Pulling Unit, RU Pump Truck.
P	Unload & Function Test BOP. ND WH. NU BOP, RU Work Floor.
P	MU 4-1/2" String Mill, Tally & PU 131 2-3/8" Hilcorp Work string to 4320'.
P	TOOH LD 4-1/2" String Mill, MU Select Oil Tool 4-1/2" TBG Packer, TIH w/ 17 Stands.
P	Secure Well & LOC.
11/27/2018	
P	S & S equip. HSM on JSA, check PSI TBG-0, 4-1/2" CSG-0, 7" INTERM.-0, BH-0 PSI. Open Well to pit.
P	TIH to 4282', load Well w/ 53 BBL H2O, CIRC. w/ 65 BBL total. Set TBG Packer.
P	Attempt to PT 4-1/2" CSG to 700# from 4282'-0'. (NO TEST). LD TBG to 4117' set Packer. Attempt to PT CSG (NO TEST). Decision was made by Hilcorp CO REP. to release Packer & TOOH and begin Plugging Well.

P	TOOH LD Packer.
P	TIH w/ 62 Stands, tally & PU 94 JTS to 7190' Tag CIBP, PU to 7189'. CIRC. Well W/ 20 BBL H2O.
P	Pumped **Plug #1**. DISP W/ 27 BBL H2O.
P	LD 8 JTS, Stand Back 12 Stands.
P	Secure Well & LOC.
11/28/2018	
P	S & S equip. HSM on JSA. Check PSI TBG-VAC, CSG-VAC, 7" INTERM.-0, BH-0 PSI. Open Well to pit.
P	TIH, Tag @ 7090'.
P	Decision was made by Mark Decker of BLM to top off Plug #1 & WOC.
P	PU 22' of Subs, RIH to 7112', CIRC Well W/ 17 BBL H2O.
X	Pumped **Plug #1A**. DISP W/ 26 BBL H2O.
X	LD 8 JTS, TOOH W/ 12 Stands.
X	WOC Sample to set.
P	TIH, Tag @ 6927', LD to next Plug.
P	Pumped **Plug #2.** DISP W/ 20 BBL H2O.
P	LD 22 JTS, TOOH.
P	Secure Well & LOC.
11/29/2018	
P	S & S equip. HSM on JSA.
P	Check PSI TBG-N/A, CSG-VAC, 7" INTERM-0, BH-0 PSI. Open Well to pit.
P	TIH, Tag @ 5534', LD 1 JT.
P	CIRC Well W/ 80 BBL H2O, LD to next Plug.
P	Pumped **Plug #3.** DISP W/ 14 BBL H2O.
P	LD 22 JTS, SB 12.
P	WOC Sample to set.
P	TIH Tag @ 3737', LD to next Plug. Mark Decker of BLM approved combined Plug #4 & #5.
P	Pumped **Plug #4 & #5 Combined**. DISP W/ 14 BBL H2O.
P	LD 25 JTS, SB 12 STDS.
P	Secure Well & LOC.
11/30/2018	
P	S & S equip. HSM on JSA.
P	Check PSI, TBG-0, CSG-0, 7" INTERM-0, BH-0 PSI. Open Well to pit.
P	TIH, Tag @ 2622', LD 1 JT.
P	Load Well W/ 2 BBL H2O, PT CSG to 600# PSI, (Good Test). Mark Decker of BLM approved of Plug #4/5 depth continue w/ scheduled Plugging Procedure.
P	LD to next Plug, TOOH.
P	HSM on WL JSA. RU WL, RIH to 2154', PERF 3 holes W/ 3-1/8" HSC, ROH, LD TOOL, RD WL.
X	Check ROI, Load Well W/ 1-1/2 BBL H2O Pressure up to 700# PSI (No Rate Established). Decision by Hilcorp REP Jimmy Morris to Pump Plug #6A to cover up Kirtland Zone Perforation Holes.
X	TIH to 2217'.
X	Pumped **Plug #6A**. DISP W/ 7.9 BBL H2O.
X	LD 5 JTS, Reverse CIRC 13 BBL H2O, saw cement returns on 7th to 9th BBL. LD 4 JTS, TOOH.
X	RU WL. RIH to 2007' PERF 3 Holes W/ 3-1/8" HSC, ROH, LD TOOL, RD WL. Load Well W/ 3 BBL. Check ROI, Pressure up to 600# PSI (No Rate Established).
X	TIH to 2052'.
X	Pumped **Plug #6B.** DISP W/ 6.9 BBl H2O.
X	LD 9 JTS, TOOH.

X	Secure Well & LOC.
12/03/2018	
X	S & S equip. HSM on JSA.
X	Check PSI, TBG-N/A, CSG-0, 7" INTERM-0, BH-0 PSI. Open Well to pit.
X	TIH, Tag @1907', LD to next Plug, TOOH.
P	HSM on WL JSA, RIH to 684', PERF 3 Holes W/ 3-1/8" HSC, ROH, LD Tool, check ROI 3 BPM @ 200# PSI, RD WL.
P	MU CR, TIH to 634' set CR.
P	Pumped **Plug #7.** Squeezing 27 SXS into the 7"x8-3/4" OH, squeezing 16 SXS into the 4-1/2"x7" Annulus, leaving 4 SXS below the CR, 8 SXS above. DISP W/ 1.8 BBL H2O.
P	LD TBG.
P	RU WL. RIH to 259', PERF 4 Holes W/ 3-1/8 HSC, ROH, LD Tool, check ROI 4 BPM @ 0 PSI. CIRC 15 BBL H2O through 4-1/2"x7". CIRC 25 BBL H2O through 7"x8-3/4" OH. RD WL.
P	RD Work Floor, ND BOP, NU WH.
P	Pumped **Plug #8.** Leaving 21 SXS inside 4-1/2" CSG, 72 SXS inside 4-1/2"x7" Annulus, 85 SXS inside 7"x8-3/4" OH & 7"x9-5/8" Annulus, good cement returns to pit out both. Shut Well in.
P	Dig out cellar.
12/04/2018	
P	S & S equip, HSM on JSA.
P	Open Well CSG-VAC, 7" INTERM-VAC, BH-VAC. Tag W/ Tally Tape @ 86' inside 4-1/2" CSG.
P	Perform Hot Work Permit, Cut off WH. Tag @ 77' inside 7" Annulus, Tag @ 15' inside 7"x9-5/8" BH. Weld DH Marker to Surface CSG.
P	RU Pump & 1-1/4" Poly Line.
P	Pumped **Top off.**
P	RD Pump Truck, RD Daylight Pulling Unit.
P	Clean and Secure LOC.

* P - Procedure Planned; U - Unplanned A+ issue; X - COA, Well Conditions

On Site Reps:

Name	Association	Notes
Mark Decker	BLM	On LOC.
Jimmy Morris	Co. Rep.	On LOC

Bolin – Hardie #1

Plugged

Basin Dakota

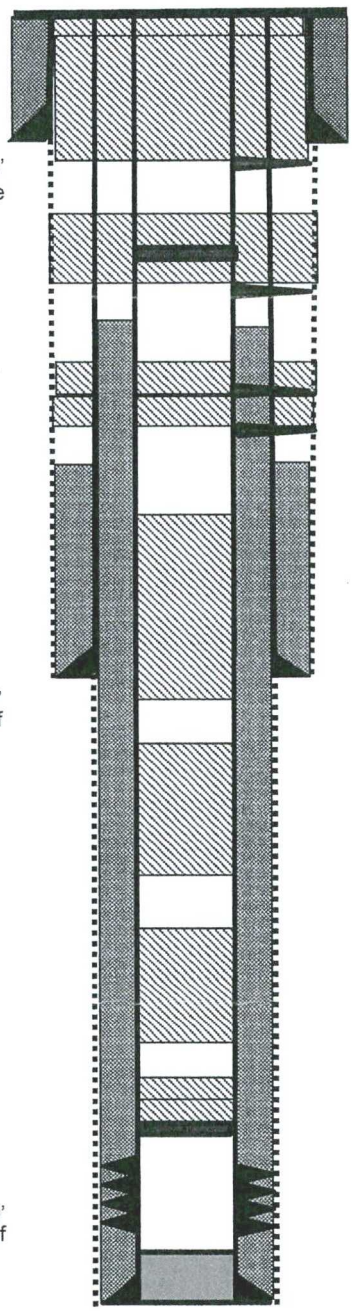
Today's Date: **12/11/18**

Spud: 8/15/67
Comp: 9/9/67

Elevation: 6402' GR
6415' KB

880' FNL / 1170' FWL Section 4, T-29-N, R-8-W,

San Juan County, NM, API #30-045-20126



13.75" hole

9.625", 32.3#, Casing set @ 209'
Cement with 140 sxs, circulate to surface

4.5" TOC @ 1490' (CBL '18).
Note: multiple squeezes detailed on current WB diagram

7" TOC @ 2353' (Calc)

8-3/4" hole

7" 17/ 20#, casing set @ 3199'
Cemented with 635 cf

.4.5" 10.5/ 11.6# casing set @ 7529'
Cemented with 700 cf

6.25" hole

TD 7529'
PBTD 7518'

Top-Off: Mix & pump 51sxs Class G cmt from 77' – 0'

Plug #8: Mix & pump 178sxs Class G cmt from 259' – 0'
Perf 4 holes @ 259'

Plug #7: Mix & pump 55sxs Class G cmt from 684' – 532'
Set CR @ 634'
Perf 3 holes @ 684'

Plug #6B: Mix & pump 20sxs Class G cmt from 2052' – 1796'
Perf 3 holes @ 2007'

Plug #6A: Mix & pump 13sxs Class G cmt from 2217' – 2050'
Perf 3 holes @ 2154'

Plug #4& #5 combined: Mix & pump 64sxs Class G cmt from 3248' – 2426'

Plug #3: Mix & pump 72sxs Class G cmt from 4621' – 3696'

Plug #2: Mix & pump 60sxs Class G cmt from 6168' – 5398'

Plug #1A: Mix & pump 16sxs Class G cmt from 7117' – 6912'

Plug #1: Mix & pump 16sxs Class G cmt from 7190' – 6985'
Existing CIBP @ 7189'

Dakota Perforations:
7221' – 7470'