State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen Cabinet Secretary

Matthias Sayer Deputy Cabinet Secretary Heather Riley, Division Director Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following <u>3160-4 or 3160-5</u> form.

Operator Signature Date: 1-4-18

Well information:

API WELL # V	Vell Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner				
30-045-25608-00-00 Z	ZACHRY	048	HILCORP ENERGY COMPANY	0	A	San Juan	F	G	34	29 N	10 W

Application Type:

	P&A		Drilling/Casing	Change 🗌	Location Change
\square	Recor	nnlo	b/DHC (For bydra	ulic fracturing o	perations review EPA

 Kecomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84



Conditions of Approval:

- Notify OCD 24hrs prior to beginning operations.
- Perform CBL and submit it to the agencies for review and approval prior to perforating.

Kotheric Partal

NMOCD Approved by Signature

<u>1/31/18</u> Date

Form 3160-5	UNITED STATES	REC	CEIVED FORM	APPROVED
(August 2007)	DEPARTMENT OF THE INTE			o. 1004-0137
	BUREAU OF LAND MANAGE		Expires:	July 31, 2010
		JAN	5. Lease Serial No.	
0.11		ONIMELLO		-080724-A
	NDRY NOTICES AND REPORTS se this form for proposals to dril		6. If Indian, Allottee or Tribe N	vame
	d well. Use Form 3160-3 (APD) f			
	UBMIT IN TRIPLICATE - Other instruction		7. If Unit of CA/Agreement, N	ama and/ar Na
1. Type of Well	OBMIT IN TRIFLICATE - Other Instruction	s on page 2.	7. If Ollit of CA/Agreement, N	ane and/or no.
	X Gas Well Other		8. Well Name and No.	
				achry 48
2. Name of Operator			9. API Well No.	
	Hilcorp Energy Company			45-25608
3a. Address		one No. (include area code)		
PO Box 4700, Farming		505-599-3400		enta Gallup
4. Location of Well <i>(Footage, Sec., T.,)</i> Surface Unit G (S	R.,M., or Survey Description) SWNE) 1980'FNL & 2145' FEL, Se	00 34 T20N P10W	11. Country or Parish, State San Juan	New Mexico
Surface Office (3	WHE) 1900 FRE & 2145 FEE, 56	50. 54, 125N, KIUW	Sali Juali	, New Mexico
12 OUEOV	THE APPROPRIATE BOX(ES) TO IN			ΡΟΔΤΔ
	T			
TYPE OF SUBMISSION		TYPE OF	ACTION	
X Notice of Intent	Acidize	eepen	Production (Start/Resume)	Water Shut-Off
	Alter Casing	acture Treat	Reclamation	Well Integrity
Subsequent Report	Casing Repair Ne	ew Construction	X Recomplete	Other
	Change Plans Plu	ug and Abandon	Temporarily Abandon	
Final Abandonment Notice	Convert to Injection Plu	ug Back	Water Disposal	
Testing has been completed. Final determined that the site is ready fo Plans are to recomplete	e the subject well in the Mesave orde. Attached is the MV plat an	all requirements, including rde formation and d procedure. A DH	reclamation, have been completed an downhole commingle the C application will be subr	d the operator has existing nitted and approved
	OIL CONS. DIV DIST	. 3	BLM'S APPROVAL OR ACC ACTION DOES NOT RELIE	VE THE LESSEE AND
	J AN 2 4-2018	}	OPERATOR FROM OBTAIN AUTHORIZATION REQUIR ON FEDERAL AND INDIAN	ED FOR OPERATIONS
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)			
Christine Brock		Title Operation	s/Regulatory Technician - S	r
Christine Druck		The Operation	is/regulatory rechinician - S	1.
Signature Christi	ie Brock	Date	1/4/2018	
	THIS SPACE FOR FED	ERAL OR STATE	OFFICE USE	
Approved by			2	1 1
	ned. Approval of this notice does not warrant of e title to those rights in the subject lease which		etroleum Engineer	Date 1/23/2018
entitle the applicant to conduct operation			FFO	
Title 18 U.S.C. Section 1001 and Title 4	3 U.S.C. Section 1212, make it a crime for any or representations as to any matter within its jun		fully to make to any department or age	ency of the United States any
(Instruction on page 2)				
		NMOCDAY		

Zachry 48

1980' FNL & 2145' FEL. Spot G. Section 34 -T 029N -R 010W API# 3004525608

Mesa Verde Recomplete Sundry

1/3/2018

History/Justification:

The Zachry 48 is a standalone Gallup well that was drilled and completed in 1983. There was a remedial project in 1999 to pull rods and put it on plunger lift, and there are no other workovers to date. This is a capital project to add a two stage MV completion in the Point Lookout and Menafee.

The casing is believed to be in good condition. Records indicate cement behind casing circulated to surface, and there is good cement bonding except for right below the DV tools. The stimulation may be performed in multiple stages. The well currently makes 34 Mcfd, 0.3 BWPD, and 0.17 BOPD.

Procedure:

- 1. MIRU service rig and associated equipment; NU and test BOP.
- 2. Tag fill, TOOH and scan 2 3/8" tubing.
- 3. Run GR and set a 5 ½" (4.95" ID) composite bridge plug below Point Lookout perfs (but above 4580') to isolate the Gallup. POOH.
- 4. TIH with tubing. Load well and circulate, and PT casing to 1000 psi. POOH.
- 5. If a frac string is required, perforate both stages, then run 2 7/8" frac string with 5 1/2" x 2 7/8" packer, and set at top of perf interval.
- 6. ND BOP and NU 5k tubing hanger and frac stack. PT casing to 4000 psi (~83% of burst for 5 1/2" 15.5# K55 casing).
- 7. Perforate and frac the Point Lookout and Mesaverde in two stages (no frac string) or use diversion (with frac string).
- 8. Nipple down frac stack, nipple up BOP and test.
- 9. TIH and cleanout to Gallup isolation plug and, when water and sand rates are acceptable, flow test the Mesaverde.
- 10. Drill out Gallup isolation plug and cleanout to PBTD of 5,982'. TOOH.
- 11. TIH and land production tubing. Get a commingled Gallup / Mesaverde flow rate.
- 12. Release service rig and turn well over to production.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

Phone:(5/5) 393-6161 Pax:(5/5) 393-0/20 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District III</u>

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-102 August 1, 2011 Permit 246578

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-045-25608	72319	BLANCO-MESAVERDE (PRORATED GAS)
4. Property Code	5. Property Name	6. Well No.
318769	ZACHRY	048
7. OGRID No.	8. Operator Name	9. Elevation
372171	HILCORP ENERGY COMPANY	5601

10. Surface Location

UL - Lot G	Section 34	Township 29N	Range 10W	Lot Idn	Feet From 1980	N/S Line N	Feet From 2145	E/W Line E	County	SAN JUAN
					ation if Differen					

			11. 00110	In noie Locali		From Sunac	e		
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated A			13. Joint or li	nfill	14. Consolidat	ion Code		15. Order No.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working
	interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. E-Signed By: Ichnistice Brack
	Title: Operations/Regulatory Tech - Sr.
	Date: 1/4/2018
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
the second s	Surveyed By: Michael Daly
	Date of Survey: 11/12/1982
	Certificate Number: 5992

Distribution Example in the interval of the interval o		-	gy Company CHRY #48	Currer	it Schemati	Ċ		
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5.596.1			PERF - GALLUP; 5,372.0-	5,552.0: 4/30/1983		49X 49X	nossible gaps. Migh	it want to check CEL)
5.751.0 5.801.8 5.801.8 5.805.5 5.865.5 5.865.5 ft KCB; 5.865.5 ft KCB; 5.867.6 ft KCB 5.867.5 5.865.5 1 all Joint; 2 3/8 in; 4.70 lbft; J-55; 5.869.3 1 all Joint; 2 3/8 in; 4.70 lbft; J-55; 5.869.3 1 KCB; 5.900.0 ft KB 5.899.9 5.982.0 5.982.	5,536.1	-					82,197 gal 70 Qualit محتى sand.	y foam and 92,000# 20/4
8,866.5 Seating N:pple; 2 3/8 in; 4.70 lbft; J-55; 5,867.6 ftKB Hydraulic Fracture; 4/24/1983; Frac'd w/ 6,867.6 FBRF - GALLUP; 5,802.0-5,954.0; 4/24/1983; Frac'd w/ 7 Fail Joint; 2 3/8 in; 4.70 lbft; J-55; 5,899.3 Frac'd w/ 6,899.9 Faw Tooth; 2 3/8 in; 4.70 lbft; J-55; 5,899.3 Frac'd w/ 5,899.1 Faw Tooth; 2 3/8 in; 4.70 lbft; J-55; 5,899.3 Frac'd w/ 5,899.9 Froduction Casing Cement (plug); 5,982.0 Froduction Casing Cement (plug); 5,982.0 6,030.0; 4/16/1983; FIRST STAGE: CAIT W/ 306 SKS CLASS H W/.5% FLA, 1/4# 5,982.0 FBTD; 5,982.0 FIRST STAGE TOC @ 4611 (CBL 4/22/83) 5,989.8 For First and Second stage 75% calculation 6,039.8 Sam Stows CMT to top of d.v. tools. CBL shows possible gaps. Might wantto check CBL 6,029.2 2; Production1; 5 1/2 in; 4.95 in; 14.0 ftXB;	5,751.0	· .	[PERF - GALLUP; 5,595.04	0.751.0, 4428/1983				
[ail Joint; 2 3/8 in; 4.70 lbft; J-55; 5,667.6] 98,840 gal 70 Quality foam and 85,000# 20/4 5,899.3	5,801.8	-	Contine Mendar 5 10					
[ail Joint; 2 3/8 in; 4.70 lbft; J-55; 5,667.6] 98,840 gal 70 Quality foam and 85,000# 20/4 5,899.3	5,866.5 +	4	5,866.5	ftKB; 5,857.6 ftKB		838	Lb. dae. 27- 19	
5.893.9 - </td <td></td> <td></td> <td></td> <td>lb/ft; J-55; 5,667.6</td> <td></td> <td>552</td> <td></td> <td></td>				lb/ft; J-55; 5,667.6		552		
5,982.0 - PETD; 5,982.0 - PETD		1		b/it, J-55; 5,899.3	100.0	2850		
5.982.0 PBTD: 5.982.0 PBTD: 5.982.0 FIRST STAGE TOC @ 4611 (CBL 4/22/83) 5.987.9 Group First and Second stage 75% calculation shows CMT to top of d.v. tools. CBL shows possible gaps. Might want to check CBL)		-		10 10 y 0y0000 (10 10)		12284	6,030.0; 4/16/1983; F	IRST STAGE: CMT W/
5,987.9 (For First and Second stage 75% calculation shows CMT to top of d.v. tools. CBL shows possible gaps. Might want to check CBL) 6,029.2							FLOCELE AND 6# S	ALT PER SACK.
5,989,8 6,029,2 2; Production1; 5 1/2 in; 4.95 in; 14.0 ft/CB;		-		[2010, 5,982.0]				
6,029.2]					shows CMT to top of	d.v. tools. CBL shows
5 179 9 2; Production 1; 5 1/2 in; 4.95 in; 14.0 ftKB;]						· · · · · · · · · · · · · · · · · · ·
6,030.0 fike	6,029.9	-]. - -	2; Production 1; 5 1/2 în;	4.95 in; 14.0 ftKB; 6,030.0 ftKB				