# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS DEC 0 6 2013

Do not use this form for proposals to drill or to re-enter an

. Lease Serial No. NMNM113426

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	II. Use form 3160-3 (APD) fo	Famingig	on Field Office	
SUBMIT IN TRI	PLICATE - Other instruction	ns on reverse side.	ाष्ट्र शिक्षाच्य अलाधि Unit or CA/Agi	reement, Name and/or No.
Type of Well	ner: INJECTION	· · · · · · · · · · · · · · · · · · ·	8. Well Name and Non OJO ENCINO 3	o. 1 FEDERAL SWD 1
2. Name of Operator HPOC,LLC	Contact: AR <sup>*</sup> E-Mail: BBUTLER@HI	THUR W. BUTLER GHPLAINSOP.COM	9. API Well No. 30-031-21112	-00-S1
3a. Address P.O. BOX 5046 BUENA VISTA, CO 81211	.   Pt	. Phone No. (include area code n: 719-395-8059	UNKNOWN WILDCAT	or Exploratory
4. Location of Well <i>(Footage, Sec., T</i> Sec 31 T20N R5W NWNE 34: 35.926480 N Lat, 107.405320	OFNL 2300FEL ACTION W Lon OPERAT	PPCOVAL OR ACCEPTAN DOES NOT CELLEVE THE DC PEODI CETAINING AN NOT CENTRON RECONDER PO	ELESSEE AND MCKINLEY CO	•
12. CHECK APPI			NOTICE, REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION	
Notice of Intent     ■     Notice of Intent     Notice of	☐ Acidize ☐ Alter Casing	☐ Deepen  ☐ Fracture Treat	☐ Production (Start/Resume) ☐ Reclamation	☐ Water Shut-Off ☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	Recomplete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
13. Describe Proposed or Completed Ope	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	
following completion of the involved	operations. If the operation results bandonment Notices shall be filed or final inspection.)  Bond No. NMB 000457.  It this disposal well to increase assure is 840 psi at an injection order SWD-1315 dated Fewell below this current limit.  al wells in the San Juan Basing we had good success in lower injection pump and design specture treatment is the best way sign. In addition, a lower injection pump.	in a multiple completion or receily after all requirements, includes injectivity and lower the on rate of 5,300 barrels of the 2, 2012 limits the wellth in indicates that fracture the tring their injection pressures for this pump anticipate for us to bring actual injection pressure will decreas	Adhere to previous injection water per nead injection RCVD DI eatment is re. HPOC is ted a lower ection se our	60-4 shall be filed once
Cor		LLC, sent to the Farmingt	on	
Name (Printed/Typed) ARTHUR	W. BUTLER	Title MANAC	GER	
Signature (Electronic S	Submission)	Date 12/06/2	013	
	THIS SPACE FOR I	EDERAL OR STATE	OFFICE USE	
Approved By TROY SALYERS  Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the same of	iitable title to those rights in the subj	warrant or	UM ENGINEER	Date 12/09/2013
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a crime statements or representations as to an	e for any person knowingly and		r agency of the United

#### Additional data for EC transaction #228786 that would not fit on the form

#### 32. Additional remarks, continued

electric usage significantly, providing cost and environmental benefits.

The frack design calls for 65,000 gallons of water and 90,000 lbs of premium white 20/40 proppant. The frack is designed to reach approximately 40-50 feet beyond the well bore and any associated skin damage.

See the attached Halliburton proposal.

### HALLIBURTON

Hpoc LLC PO Box 5046 Buena Vista, Colorado 81211

Ojo Encino 31 Federal SWD 1

Mc Kinley County, New Mexico United States of America S:31 T:20N R:5W API/UWI 30031211120000

# Single Stage, Delta 140 Frac

Prepared for:

**Butch Butler** 

December 5, 2013 Version: 2

Submitted by: Lance Erdmann Halliburton 4109 E Main Farmington, New Mexico 87499 +15053243501

HALLIBURTON

### Well Information

### Ojo Encino 31 Fed SWD 1

Well Name: Ojo Encino 31 Federal SWD Well #: 1

#### **Tubulars**

Name	Measured	Outer	Inner	Linear	Grade
	Depth (ft)	Diameter	Diameter	Weight	
and the same of the same is	Service State of the Service S	(in)	(in)	(lbm/ft)	1. 1 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 1/2" Production	0 - 5762	4.5	4	11.6	J-55
Casing					

### Job Fluids Summary

# Ojo Encino 31 Fed SWD 1

				Oxidizer Sweep		
Volume	RJ <sub>2</sub> .	Base Fluid	Additive Mate	erial "Additive Materi	al Additive Materi	al 🔧 🔆 : Additive Material 🔧
1000 (Gal)		2% KCL Water		CAT-3	CAT-4	GasPerm 1000
Totals	11. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	1000 (Gal)	10 (Gal)	2 (Gal)	0.2 (Gal)	-2 (Gal)

Delta Frac 140 R 15#								
Volume	Base Fluid	Additive Material	Additive Material 🔭	Additive Material	Additive Material			
42000 (Gal)	2% KCL Water*	SP Breaker	Optiflo-III	GasPerm 1000	CAT-3			
Totals	42000 (Gal)	84 (lbm)	42 (lbm)	84 (Gal)	42 (Gal)			

		Water Frac G - F	R 15#	
م الله الله الله الله الله الله الله الل	* Base Fluid	Additive Material :	Additive Material	Additive Material
22000 (Gal)	2% KCL Water*	. SP Breaker	GasPerm 1000	CAT-3
Totals	22000 (Gai)	22 (lbm)	44 (Gal)	22 (Gal)

١	7.5% HF Acid	
ı	Volüme Additive Material Additive	ve Material
ı	1000 (Gal) HAI-OS GasPe	
1	Totals 2 (Gal)	

	JOB TOTALS								
"Volume	: Base Fluid	Additive	Additive	Additive	Additive 🗼 🥌	Additive	Additive	Additive	
	A service in the serv	Material,	Material Material	Material	Material	Material ( )	Material :	Material 1	
(Gal)	(Gal) 2% KCL	Vicon NF	CAT-3	(Gal) CAT-4	(Gal) GasPerm	SP Breaker	Optiflo-III	HAI-OS	
	Water*	, VICOITINE	CA1-3	CA1-4	1000 '		Орино-ті	HAI-03	
	65000	10 15	66	0.2	132	<sup>2</sup> 106	. 42	1722	

١		Proppant	
ı		Designed Qty	Requested -
ł	Premium White-20/40	90000 (lbm)	90000 (lbm)

Name	Volume(Gal)	Diverters Conc(lbm/Mga	i) Mass(ibm)	
Biovert NWB	4000	125	500	CL_LL.COLLANDERCOLL

Customer Supplied Items *								
	Designed Qt	y Tank Botto	m Requested w/ Tank Bottom					
2% KCL Water	65000 Gal	0 Gal	65000 Gal					

### Treatment 1

## Ojo Encino 31 Fed SWD 1

Well Name	Ojo Encino 31 Federal SWD	Oxidizer Sweep	1000 Gal
Job Name	Ojo Encino 31 Fed SWD 1	7.5% HF Acid	1000 Gal
Estimated Pump Time	0.59 hrs	Water Frac G - R 15#	22000 Gal
BHST	68 degF	Delta Frac 140 R 15#	42000 Gal
		Premium White-20/40	90000 lbm
		Biovert NWB	500 lbm

	Casing (Surface)									
Trt-Sta	ge\.a	Stage Desc	Flow Pat	h Fluid Desc	Rate Liq+Pro	)p, , , (	Clean Vo	Proppant.	Proppant Conc.	Prop. Mass
1.1-1 1.1-1.1-1		Pre-Flush	IN ,	Oxidizer Sweep	15		1000	The second secon	0	0
1-2		Acid Spearhead	IN	7.5% HF Acid	15		1000		0	0
. 1-3	3.5	Pad 1	, IN	Water Frac G - R 15#	50		18000		0 🤾	0
1-4		Pad	IN	Delta Frac	50		2000		0	0
				140 R 15#						
1-5		Proppant Laden Fluid	IN	Delta Frac 140 R 15#	50		10000	Premium White-20/40	1 : ;	10000
1-6		Proppant Laden Fluid	IN	Delta Frac 140 R 15#	50		10000	Premium White-20/40	2	20000
1-7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Proppant Laden Fluid	IN	Delta Frac 140 R 15#	50		20000	Premium White-20/40	3	(60000
1-8		Flush	IN	Water Frac G - R 15#	50		4000		0	0
1-9		Shut-In	SHUTIN		.0	4.1.1.1	0 -	the state of the s	0	n. 184 O 18
Totals	s					0.00	¥66000#			90000

Casing						
Stage#, Stage Desc.	Clean Vol 🥍 🔑 Diverter Usëd.	Div. Conc	. (Ibm/Mgal)	- Div. Qtỳ: (lbm)	) Gather	
1-8 Flush	4000 Biovert NWB		25	500		
Totals				**** /500 · ***	14 K	

### Fluid Details - Treatment 1

## Ojo Encino 31 Fed SWD 1

Oxidizer Sweep					
Volume (Gal)	्, रूBase Fluid	Additive Material	Additive Material	Additive Material	Additive Material
# 1 m	the first the subject to the second	، (gal/Mgal)	(gal/Mgal)	(gal/Mgal)	(gal/Mgal)
	2% KCL Water *	Vicon NF	CAT-3	CAT-4	GasPerm 1000
1000	0 - 1000	10	2	0.2	2

7.5% HF Acid					
¿Volume (Gal)	Base Fluid	Additive M	aterial (gal/Mgal) 🧼 🤲 Additive Material (gal/Mgal)		
	HCL / HF Acid	HAI-OS	GasPerm 1000		
1000	0 - 1000	7 1 1	ب در ایرانیک بیستهایی با بازی با در بازی گیمایی بازی به در کید بازی به در پود هم فیست و پید به در سرد و و		

Water Frac G - R 15#					
Volume (Gal) A Base Fluid	Additive Material (lbm/Mgal)	. Additive Material (gal/Mgal):	Additive Material (gal/Mgal)		
2% KCL Water *	SP Breaker	GasPerm 1000	CAT-3		
22000 0 - 22000	<b>11</b>	2	1		

Delta Frac 140 R 15#						
Volume*(Gal) Base Fluid Additive Material Additive Material Additive Material (Ibm/Mgal) (gal/Mgal) (gal/Mgal)						
2% KCL Water *	SP Breaker	Optiflo-III	GasPerm 1000	CAT-3		
42000 0 - 42000	2	1	. 2	11 ( T. 197 1) 11 A. T.		

<sup>\*</sup> Customer Supplied