Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilcor	perator Hilcorp Energy Company						Lease Name JICARILLA B						
Location of Wel	II: Unit I	_etter _	K	Sec	25	Twp	026N	R	ge	004W API	# 30-039-21516		
	N	ame of Re	eservoir or Po	ool		Type of Pro				Method of Prod	Prod Medium		
Upper Completion	PC				Gas				Flow		Tubing		
Lower Completion	MV				Gas				Artific	ial Lift	Tubing		
				Pre	-Flow S	Shut-In I	Pressu	ıre Data	a				
Upper Completion Lower Completion	4/2 Hour, Dat	te, Shut-In 4/2020 te, Shut-In 4/2020			Length o	f Time Sh	ut-In		SI Pres	0	Stabilized?(Yes or No) Yes Stabilized?(Yes or No) Yes		
	4/2	4/2020			Flo	w Test	No. 1			103	165		
Commenced a	t: 4/27	/2020				Zo	ne Pro	ducing	(Upper	or Lower): LO	WER		
Time (date/time	·)		sed Time Since*	Uppe	PRES er zone	SURE Lower	zone	Prod Tempe	Zone erature		Remarks		
4/27/2020 10:57	7 AM		10		0	16	3			$^-$ to lower zone. Shu	for an hour and no change it in non-producing zone and zone to sales for normal 3-		
4/28/2020 10:59	AM (34		0	15	8						
4/29/2020 1:00	PM		61		0	15	6						
Production rate	during t	est											
Oil:	BPOD	Based o	n:	Bbl	s. In		Hrs.			Grav.	GOR		
Gas		MC	FPD; Tes	t thru (Ori	fice or M	leter)							
				Mic	d-Test S	hut-In F	Pressu	re Data	a				
Upper Completion	Hour, Dat	te, Shut-In	l		Length o	f Time Sh	ut-In		SI Pres	s. PSIG	Stabilized?(Yes or No)		
Lower Completion	Hour, Dat	te, Shut-In	l						SI Pres	s. PSIG	Stabilized?(Yes or No)		
					(Continu	io on ro	vorco	eida)					

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

		110	W 1631 NO. 2			
Commenced at:			Zone Pro	oducing (Uppe	r or Lower)	
Time	Lapsed Time		SURE	Prod Zone		
(date/time)	Since*	Upper zone	Lower zone	Temperature		Remarks
Production rate during		Rhls In	Hre	(3rav	GOR
Gas	MCFPD; Test th	nru (Orifice or M	Meter)			
Remarks:						
		e to lower zone	e. Shut in non-լ	oroducing zone	e and turn the p	roducing zone to sales fo
I hereby certify that th	ne information herein o	contained is true	e and complet	e to the best o	f my knowledge).
Approved:		20	Operat	tor: Hilcorp E	Energy Compan	y
New Mexico Oil Co	onservation Division		By:	Gilberto Lova		
Ву:			Title:	Multi-Skilled	Operator	
Title:			Date:	Friday, Febru	uary 26, 2021	

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilco	orp Energy	/ Comp	any	Le	Lease Name JICARILLA B Well No.							
Location of We	ell: Unit Le	etter _	K Se	c <u>25</u>	Twp	026N	Rg	е	004W API	# 30-039-21516		
	Nar	me of Res	ervoir or Pool		Typ of P				Method of Prod	Prod Medium		
Upper Completion	PC			G	as			Flow		Tubing		
Lower Completion	MV			G	as			Artific	ial Lift	Tubing		
				Pre-Flov	w Shut-In	Pressu	ıre Data					
Upper Completion Lower	Hour, Date 6/21 Hour, Date	/2019		_	th of Time SI	nut-In			s. PSIG 30 s. PSIG	Stabilized?(Yes or No) Yes Stabilized?(Yes or No)		
Completion	6/21	/2019							248	Yes		
					Flow Test	No. 1						
Commenced a	at: 6/24/2	2019			Z	one Pro	oducing ((Uppe	r or Lower): LC	WER		
Time (date/time	e)		ed Time nce*	PR Upper zor	ESSURE ne Lowe	r zone		d Zone perature Remark		Remarks		
6/24/2019 12:0)9 PM		12	30	2	48						
6/24/2019 12:0)9 PM		12	0 248		48			PC is a non-produ	ucing zone		
6/25/2019 1:24	4 PM		37	0	2	05						
6/26/2019 7:27	7 AM		55	0	2	11						
Production rate	e during te	est										
Oil:	BPOD B	ased or	n:	Bbls. In		Hrs.		(Grav.	GOR		
Gas		MCF	PD; Test thr	u (Orifice c	or Meter)_							
				Mid-Tes	t Shut-In	Pressi	ıre Data					
Upper Completion	Hour, Date	, Shut-In			th of Time SI				s. PSIG	Stabilized?(Yes or No)		
Lower Completion	Hour, Date	, Shut-In						SI Pres	s. PSIG	Stabilized?(Yes or No)		
	<u> </u>			(Con	tinue on re	everse s	side)			1		

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	Zone Producing (Upper or Lower)						
Time	Lapsed Time		SURE	Prod Zone	Domarko					
(date/time)	Since*	Upper zone	Lower zone	Temperature	Remarks					
Production rate during		Dhia ia	Hen		000					
Oil: BPOD										
Gas	MCFPD; Test th	ru (Orifice or M	leter)							
Remarks:										
I hereby certify that the	e information herein c	contained is true	e and complet	e to the best of	f my knowledge.					
Approved:		20	Operat	or: Hilcorp E	nergy Company					
New Mexico Oil Co	nservation Division		Ву:	Gilberto Lova	ato					
Ву:			Title: _	Multi-Skilled	Operator					
Title:			Date: _	Friday, Febru	uary 26, 2021					

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Operator Hilcorp Energy Company

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This form is not to be used for reporting packer leakage tests in Southeast New Mexico

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Lease Name JICARILLA B

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Well No.

Location of We	ell: Unit	t Letter K Se	ec <u>25</u>	Twp026N	Rge		004W API	# 30-039-21516		
		Name of Reservoir or Pool		Type of Prod			Method of Prod	Prod Medium		
Upper Completion	PC		Gas		F	low		Tubing		
Lower Completion	MV		Gas		А	Artificial Lift		Tubing		
			Pre-Flow S	Shut-In Pressu	ure Data					
Upper Completion		ate, Shut-In /14/2018		f Time Shut-In		SI Press. PSIG		Stabilized?(Yes or No) Yes		
Lower Completion		ate, Shut-In /14/2018	177	177			s. PSIG 272	Stabilized?(Yes or No) Yes		
			Flo	w Test No. 1						
Commenced	at: 5/2	21/2018		Zone Pro	oducing (U	pper	or Lower): LO	WER		
Time (date/tim	e)	Lapsed Time Since*	PRES Upper zone	SURE Lower zone	Prod Zo Tempera	-		Remarks		
5/15/2018 9:3	9 AM	0	77	270			Daily pressure check			
5/16/2018 9:3	0 AM	0	77	270			Daily pressure check			
5/17/2018 8:2	5 AM	0	77	77 272				eck, contacted OCD for		
			1		1		Verbalpermission	it scheduled 5/21 at 9:00am to continue if witness not licarilla tribe of test times.		
5/21/2018 9:0	0 AM	9	77	272				oroduced to pit for 2.5 I crossover of 20%.		
5/21/2018 9:4	5 AM	9	77	59			Crossover met, ha	ad produce to pit, OCD was		
Production rate	e during	j test								
Oil:	BPOD	Based on:	Bbls. In	Hrs.			Grav.	GOR		
Gas		MCFPD; Test the	ru (Orifice or M	leter)						
			Mid-Test S	hut-In Pressu	ıre Data					
Upper Completion	Hour, D	Pate, Shut-In		f Time Shut-In		Pres	s. PSIG	Stabilized?(Yes or No)		
Lower Completion	Hour, D	Pate, Shut-In			SI	Pres	s. PSIG	Stabilized?(Yes or No)		
				-			-			

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	oducing (Uppe	r or Lower)	
Time (date/time)	Lapsed Time Since*	PRES Upper zone	SURE Lower zone	Prod Zone Temperature	F	Remarks
(date/time)	Onice	Opper zone	Lower zone	Temperature	'	Comand
Production rate during					_	
Oil:BPOD						
Gas	MCFPD; Test th	ru (Orifice or M	leter)			
Remarks:						
Upper completion is fl	owing but not produci	ng				
I hereby certify that the	e information herein o	contained is true	e and complete	e to the best o	f my knowledge.	
Approved:		20	Operat	or: Hilcorp E	Energy Company	
New Mexico Oil Co	enservation Division		Ву:	Randy Hitch	cock	
Ву:			Title: _	Multi-Skilled	Operator	
Title:			Date: _	Friday, Febru	uary 26, 2021	

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
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- $5. \quad Following \ completion \ of \ Flow \ Test \ No. \ 1, the \ well \ shall \ again \ be \ shut-in, in \ accordance \ with \ Paragraph \ 3 \ above.$

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
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- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

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Upper Completion PC Gas Flow Tubing Lower Completion MV Oil Artificial Lift Tubing Pre-Flow Shut-In Pressure Data Upper Hour, Date, Shut-In SI Press. PSIG Stabilized?(1)	Prod ledium									
Upper Completion PC Gas Flow Tubing Lower Completion MV Oil Artificial Lift Tubing Pre-Flow Shut-In Pressure Data Upper Hour, Date, Shut-In SI Press. PSIG Stabilized?(1)	ledium									
Completion PC Gas Flow Tubing Lower Completion MV Oil Artificial Lift Tubing Pre-Flow Shut-In Pressure Data Upper Hour, Date, Shut-In SI Press. PSIG Stabilized?(\)	(es or No)									
Completion MV Oil Artificial Lift Tubing Pre-Flow Shut-In Pressure Data Upper Hour, Date, Shut-In SI Press. PSIG Stabilized?(\)	(es or No)									
Upper Hour, Date, Shut-In SI Press. PSIG Stabilized?(\)	/es or No)									
Upper Hour, Date, Shut-In SI Press. PSIG Stabilized?(\)										
Completion 6/16/2017 Length of Time Shut-In 73 Yes 154 SI Press PSIG Stabilized 20	·									
Lower Completion 6/16/2017 154 SI Press. PSIG Stabilized?(\square\text{Ves}) 154 SI Press. PSIG Stabilized?(\square\text{Ves})	∕es or No)									
Flow Test No. 1 Commenced at: 6/22/2017 Zone Producing (Upper or Lower): LOWER										
Time Lapsed Time PRESSURE Prod Zone										
(date/time) Since* Upper zone Lower zone Temperature Remarks										
6/22/2017 10:13 AM 10 73 105										
6/22/2017 10:21 AM 10 73 52										
Production rate during test										
Oil: BPOD Based on: Bbls. InHrs. Grav. GOR										
GasMCFPD; Test thru (Orifice or Meter)										
Mid-Test Shut-In Pressure Data										
Upper Completion Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(\sqrt{\text{V}}	res or No)									
Lower Completion Hour, Date, Shut-In SI Press. PSIG Stabilized?(\sqrt{1})	res or No)									

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	oducing (Upper	r or Lower)	
Time	Lapsed Time	PRES	1	Prod Zone	D	am a rica
(date/time)	Since*	Upper zone	Lower zone	Temperature	Re	emarks
	Based on:					
Gas	MCFPD; Test thr	u (Orifice or M	leter)			
Remarks:						
Witnessed by Jason S	andoval and Thomas	Vermersch.				
I hereby certify that th	e information herein co	ontained is true	e and complete	e to the best of	f my knowledge.	
Approved:		20	Operat	or: Hilcorp E	Energy Company	
New Mexico Oil Co	nservation Division		Ву:	lovatgm		
Ву:			Title: _	Multi-Skilled	Operator	
Title			Date: _	Friday, Febru	uary 26, 2021	

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
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- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
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Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

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Operator Hilco	perator Hilcorp Energy Company				Name JICAF		Well No. 8			
Location of We	ell: Unit	Letter K	Sec _	25	Twp026N	Rg	je	004W	API	# 30-039-21516
		Name of Reservoir of	or Pool		Type of Prod			Method of Prod		Prod Medium
Upper Completion	PC			Gas			Flow			Tubing
Lower Completion	MV			Gas			Artificial Lift			Tubing
			Pr	e-Flow S	Shut-In Pressu	ıre Data	1			
Upper Completion Lower Completion	7/ Hour, D	7/2016 Pate, Shut-In			f Time Shut-In		SI Press	s. PSIG	121	Stabilized?(Yes or No) Yes Stabilized?(Yes or No)
·	11	7/2016		Flo	w Test No. 1				293	Yes
Commenced	at: 7/1	8/2016			Zone Pro	ducing	(Upper	or Lower)	: LO	WER
Time (date/tim	e)	Lapsed Tir Since*		PRES per zone	SURE Lower zone	Prod Zone Temperature				Remarks
7/18/2016 3:5	3 PM	15		121	93					
7/19/2016 12:0	05 PM	36		121	91					
7/20/2016 8:5	6 AM	56		121	45					
Production rate	e during	test								
Oil:	ВРОГ	Based on:	Bb	ols. In	Hrs.			Grav.		GOR
Gas		MCFPD;	est thru (O	rifice or M	leter)					
			Mi	id-Test S	hut-In Pressu					
Upper Completion	Hour, D	ate, Shut-In		Length o	f Time Shut-In		SI Press	s. PSIG		Stabilized?(Yes or No)
Lower Completion	Hour, D	ate, Shut-In					SI Press	s. PSIG		Stabilized?(Yes or No)
	1			(Continu	ie on reverse s	side)			1	

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	oducing (Uppe	r or Lower)
Time	Lapsed Time		SURE	Prod Zone	Domonto
(date/time)	Since*	Upper zone	Lower zone	Temperature	Remarks
Production rate during	g test				
		Phle In	∐rc	(Gray GOP
					GravGOR
Gas	MCFPD; Test th	nru (Orifice or M	leter)		
Remarks:					
I hereby certify that th	e information herein	contained is true	e and complet	e to the best o	f my knowledge.
Approved:		20	Operat	tor: Hilcorp E	Energy Company
New Mexico Oil Co	onservation Division		Ву:	fiermj	
Ву:			Title:	Multi-Skilled	Operator
			Date:	Friday, Febru	uary 26, 2021
			_		

- A packer leakage test shall be commenced on each multiply completed well within seven days after actual
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- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilco	orp Energy (Lease Name JICARILLA B							Well No8	
Location of We	ell: Unit Lett	ter K	Sec	25	Twp _	026N	R	ge	004W	API	# 30-039-21516
	Name	e of Reservoir or	Pool		Ty of F	pe Prod			Method of Prod		Prod Medium
Upper Completion	PC			Gas				Flow			Casing
Lower Completion	MV			Gas				Artificial Lift			Tubing
	1		Pre	e-Flow S	Shut-In	Pressu	re Data	а			
Upper Completion Lower	Hour, Date, S 6/9/20 Hour, Date, S	16		Length o	of Time S	hut-In			s. PSIG s. PSIG	84	Stabilized?(Yes or No) Yes Stabilized?(Yes or No)
Completion	6/9/20							011100	0.1 010	287	Yes
				Flo	w Tes	t No. 1					
Commenced	at: 6/15/20)16			Z	one Pro	ducing	(Uppe	r or Lowe	r): LO	WER
Time (date/tim		Lapsed Time Since*		PRESSURE Upper zone Lower zone			Prod Zone Temperature			Remarks	
6/15/2016 12:2	29 PM	12		84	1	30					
Production rate	e during test		,								
Oil:	BPOD Bas	sed on:	Bbl	s. In		Hrs.		(Grav.		GOR
Gas		_MCFPD; Te	st thru (Ori	fice or N	/leter)_						
			Mic	d-Test S	Shut-In	Pressu	ire Data	a			
Upper Completion	Hour, Date, S	Shut-In			of Time S				s. PSIG		Stabilized?(Yes or No)
Lower Completion	Hour, Date, S	Shut-In						SI Pres	s. PSIG		Stabilized?(Yes or No)

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	oducing (Upper	r or Lower)
Time	Lapsed Time	PRES		Prod Zone	Demonto
(date/time)	Since*	Upper zone	Lower zone	Temperature	Remarks
Production rate during Oil:BPOD	Based on:				GravGOR
Remarks:		ra (Ormoo or iv	.0.0.7		
		ough PSI to bu	ck line PSI an	d has been shu	ut in for years. No communication
I hereby certify that the	e information herein c	contained is true	e and complete	e to the best of	f my knowledge.
Approved:		20	Operat	or: Hilcorp E	nergy Company
	nservation Division		Ву:	fiermj	
Ву:			Title:	Multi-Skilled	Operator
Title:			Date:	Friday, Febru	uary 26, 2021

- A packer leakage test shall be commenced on each multiply completed well within seven days after actual
 completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion.
 Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or
 chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or
 the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when
 requested by the Division.
- At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilco	orp Enei	rgy Company		Lease	Name JICAF	RILLA B	}		Well No8	
Location of We	ell: Unit	Letter K Se	ec	25	Twp <u>026N</u>	R	ge	004W API	# 30-039-21516	
		Name of Reservoir or Pool			Type of Prod			Method of Prod	Prod Medium	
Upper Completion	РС			Gas			Flow		Tubing	
Lower Completion	MV			Gas			Artific	ial Lift	Tubing	
			Pre-	Flow S	hut-In Pressu	ıre Data	a			
Upper Completion	7/	ate, Shut-In 23/2015		Length of Time Shut-In				s. PSIG	Stabilized?(Yes or No) Yes	
Lower Completion		ate, Shut-In 23/2015		1/5	175 SI Press. PSIG			s. PSIG 275	Stabilized?(Yes or No) Yes	
				Flo	w Test No. 1					
Commenced a	at: 7/2	7/2015			Zone Pro	ducing	(Uppei	r or Lower): LO	WER	
Time		Lapsed Time		PRES	SURE		Zone			
(date/time	e)	Since*	Uppei	r zone	Lower zone Temp		erature		Remarks	
7/27/2015 7:29	9 AM	7	()	275	55			pened for 1 hr no change in ower zone to produce	
7/28/2015 7:3	5 AM	31	()	225	4	49 still no psi on upp		per zone flowing lower zone	
7/29/2015 7:36	6 AM	55	()	200	5	5	no psi on upper zone lower zone still flowir		
7/30/2015 7:4	5 AM	79	()	210	6	60 finish test			
Production rate	during	test								
Oil:	BPOD	Based on:	Bbls.	. In	Hrs.			Grav.	GOR	
Gas		MCFPD; Test the	ru (Orifi	ce or M	leter)					
			Mid-	Test S	hut-In Pressu	ıre Data	a			
Upper Completion	Hour, Date, Shut-In			Length of Time Shut-In		SI Press. PSIG		Stabilized?(Yes or No)		
Lower Completion	Hour, Date, Shut-In						SI Press. PSIG		Stabilized?(Yes or No)	

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at: Zone Producing (Upper or Lower)											
Time	Lapsed Time Since*		SURE	Prod Zone	Remarks						
(date/time)	Since	Upper zone	Lower zone	Temperature	Remarks						
Production rate during											
					GravGOR						
Gas	MCFPD; Test th	ru (Orifice or M	leter)								
Remarks:											
no pressure to upper z	zone flowing lower zor	ne									
I hereby certify that th	e information herein c	ontained is true	e and complet	e to the best of	f my knowledge.						
Approved:		20	Operat	or: Hilcorp E	nergy Company						
New Mexico Oil Co	nservation Division		Ву:	greenrd							
Ву:			Title:	Multi-Skilled	Operator						
Title:			Date: _	Friday, Febru	uary 26, 2021						

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

A/29/2014 2:30 PM	Operator Hilco	orp Ene	rgy Compai		Lease	Name JICAF	RILLA B	1		Well No. 8		
Cupper Completion	Location of We	ell: Unit	Letter	K Se	ес	25	Twp <u>026N</u>	R	ge	004W API	# 30-039-21516	
Completion PC Cas Flow Tubing			Name of Rese	voir or Pool								
Pre-Flow Shut-In Pressure Data		PC				Gas			Flow		Tubing	
Upper Completion		MV				Oil			Artific	ial Lift	Tubing	
Upper Completion					Pre	-Flow S	hut-In Pressi	ıre Data	а			
112 SI Press. PSIG Stabilized?(Yes or No)		Hour, D	ate, Shut-In			Learning (Time Obert In				s. PSIG	Stabilized?(Yes or No)	
Time Canal Can	Completion					_	r Time Snut-in					
Flow Test No. 1 Zone Producing (Upper or Lower): LOWER			•			112			SI Pres			
Commenced at: 4/29/2014 Zone Producing (Upper or Lower): LOWER	4/25/2014									Yes		
Time (date/time)						Flo	w Test No. 1					
Clate/time Since* Upper zone Lower zone Temperature Remarks	Commenced	at: 4/2	29/2014				Zone Pro	ducing	(Uppei	r or Lower): LO	WER	
4/29/2014 1:15 PM	Time		Lapsed	d Time		PRES	SURE	Prod	Zone			
A/29/2014 1:30 PM	(date/tim	•		ce*	Uppe	er zone	Lower zone	Tempe	erature		Remarks	
200	4/29/2014 1:1	4/29/2014 1:15 PM 0			67	132						
lower zone 40 psi. lower zone 40 psi. lower zone 40 psi.	4/29/2014 1:3	0 PM	()		67	58				ures, upper zone 67, lower	
38 psi. 38 psi. 38 psi. 4/29/2014 2:30 PM	4/29/2014 1:4	5 PM	()		67	40					
A/29/2014 3:00 PM 2 67 35 2 hrs pressures, upper zone 67 psi, lower zone 35 psi.	4/29/2014 2:0	0 PM	1			67	38			1 hr pressures, upper zone 67 psi, lower zone 38 psi.		
## ## ## ## ## ## ## ## ## ## ## ## ##	4/29/2014 2:3	0 PM	1			67	35			1 hr 30 minutes pressures, upper zone 67 psi, lower zone 35 psi.		
Production rate during test Oil: BPOD Based on: Bbls. In Hrs. Grav. GOR Gas MCFPD; Test thru (Orifice or Meter) Mid-Test Shut-In Pressure Data Upper Completion Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No)	4/29/2014 3:0	0 PM	2	! -		67	35		_		pper zone 67 psi, lower	
Oil: BPOD Based on: Bbls. In Hrs. Grav. GOR MCFPD; Test thru (Orifice or Meter) Mid-Test Shut-In Pressure Data Upper Completion Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No)	4/29/2014 4:0	0 PM	3	}	ı	67	35				pper zone 67 psi, lower	
Gas MCFPD; Test thru (Orifice or Meter) Mid-Test Shut-In Pressure Data Upper Completion Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No)	Production rate	e during	test									
Wid-Test Shut-In Pressure Data Upper Completion Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No)	Oil:	BPOD) Based on:		Bbls	s. In	Hrs.		(Grav.	GOR	
Upper Completion Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No)	Gas		MCFF	D; Test th	ru (Orif	ice or M	leter)					
Upper Completion Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No)					Mid	-Test S	hut-In Pressi	ıre Data	a			
Lower Hour, Date, Shut-In SI Press. PSIG Stabilized?(Yes or No.)	Upper Hour, Date, Shut-In							s. PSIG	Stabilized?(Yes or No)			
Completion Completion	Lower Completion							SI Press. PSIG Stabilized?(Yes or N		Stabilized?(Yes or No)		

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

		FIC	ow rest no. z					
Commenced at:			Zone Pro	oducing (Uppe	r or Lower)			
Time	Lapsed Time		SURE	_Prod Zone		GORGORarator on 4-25-2014. Line pressu nowledge.		
(date/time)	Since*	Upper zone	Lower zone	Temperature		Remarks		
Production rate during	g test							
Oil:BPO	D Based on:	Bbls. In	Hrs.		Grav.	GOR		
Gas	MCFPD; Test th	nru (Orifice or M	leter)					
Remarks:								
	from Brandon Powell	, NMOCD to do	packer test by	producing the	ru separator on	4-25-2014. Line pressure		
at start of test 131 ps	i.							
I hereby certify that the	ne information herein o	contained is true	e and complet	e to the best o	f my knowledge	э.		
Approved:		20	Operat	tor: Hilcorp E	Energy Compar	ny		
New Mexico Oil C	onservation Division		Ву:	chavetd				
Ву:			Title:	Multi-Skilled	Operator			
Title:			Date:	Friday, Febr	uary 26, 2021			

- A packer leakage test shall be commenced on each multiply completed well within seven days after actual
 completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion.
 Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or
 chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or
 the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when
 requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilco	Operator Hilcorp Energy Company						Lease Name JICARILLA B					Well No8
Location of We	ell: Unit	Letter _	K Se	ес	25	Twp	026N	R	ge	004W A	API#	30-039-21516
	N	lame of Res	servoir or Pool			Type of Pro				Method of Prod		Prod Medium
Upper Completion	PC				Gas	}			Flow			Гubing
Lower Completion	MV				Gas	i			Artificial Lift		7	Гubing
				Pre	-Flow S	Shut-In F	Pressu	ıre Data	a			
Upper	Hour, Da	te, Shut-In							SI Pres	s. PSIG	S	Stabilized?(Yes or No)
Completion	4/15/2013				ŭ	of Time Shu	ut-In			64		Yes
Lower	Hour, Date, Shut-In				205			-	SI Pres	s. PSIG	S	Stabilized?(Yes or No)
Completion	4/1	5/2013						377			77	Yes
Commenced	at: 4/23								`	or Lower):	LOW	/ER
Time		Laps	ed Time		PRES	SSURE		Prod	Zone			
(date/time	e)	Si	nce*	Uppe	er zone	Lower	zone	Temperature		Remarks		emarks
4/23/2013 1:2	5 PM		0	ı	64	37	7			complete test. dropped lower	Flower zone t	er then thru separator to d well for 43 minutes and to 48 pounds. Upper zone The lapsed time is 193
Production rate	e during	test										
Oil:	BPOD	Based or	า:	Bbls	s. In		Hrs.			Grav.		GOR
Gas		MCF	PD; Test th	ru (Orif	ice or N	Meter)						
				Mid	-Test S	Shut-In F	Pressu	ıre Data	1			
Upper Completion	Hour, Date, Shut-In		Length of Time Shut-In				SI Press. PSIG		S	Stabilized?(Yes or No)		
Lower Completion	Hour, Da	te, Shut-In							SI Press. PSIG		S	Stabilized?(Yes or No)

Northwest New Mexico Packer-Leakage Test

		Flo	ow Test No. 2						
Commenced at:			Zone Pro	e Producing (Upper or Lower)					
Time	Lapsed Time	PRES	SURE	Prod Zone					
(date/time)	Since*	Upper zone	Lower zone	Temperature	Remarks				
Production rate durin	g test								
Oil:BPO	D Based on:	Bbls. In	Hrs.		GravGOR				
Gas	MCFPD; Test th	nru (Orifice or M	leter)						
Remarks:									
Obtained approval from	om Brandon Powell N	MOCD to produ	ice thru separa	tor to pit to cor	nplete test.				
I hereby certify that the	he information herein o	contained is true	e and complet	e to the hest of	my knowledge				
Approved:		20	Operat	or: Hilcorp E	nergy Company				
New Mexico Oil C	onservation Division		Ву:	chavetd					
Ву:			Title:	Multi-Skilled	Operator				
Title:			Date:	Date: Friday, February 26, 2021					

- A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
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- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilco	orp Ene	rgy Company	Lease	e Name <u>JICAF</u>	RILLA B		Well No. 8			
Location of We	ell: Unit	Letter K Se	ec <u>25</u>	Twp <u>026N</u>	Rge	004W API	# 30-039-21516			
		Name of Reservoir or Pool		Type of Prod		Method of Prod	Prod Medium			
Upper Completion	PC		Gas		Flow		Tubing			
Lower Completion	MV		Gas		Artific	ial Lift	Tubing			
			Pre-Flow S	Shut-In Pressu	ure Data					
Upper	Hour, D	ate, Shut-In			SI Pres	s. PSIG	Stabilized?(Yes or No)			
Completion	4/	20/2012	_	of Time Shut-In		67	Yes			
Lower	Hour, D	ate, Shut-In	96		SI Pres	s. PSIG	Stabilized?(Yes or No)			
Completion 4/20/2012 279 Yes										
Commenced	at: 4/2	24/2012	Flo	Zone Pro	oducing (Upper	or Lower): LO	WER			
Time		Lapsed Time	PRES	SURE	Prod Zone					
(date/tim	e)	Since*	Upper zone	Lower zone	Temperature		Remarks			
4/20/2012 12:0	00 AM	0	67	45		Flowed lower zone separator.	e for 32 minutes thru			
4/24/2012 12:0	00 AM	0	67	45		Flowed lower zone separator.	owed lower zone for 32 minutes thru eparator.			
Production rate			Phic In	∐ro		Prov	GOR			
		Based on:				JIAV	GOR			
Gas		MCFPD; Test th	ru (Orifice or N	Meter)						
			Mid-Test S	Shut-In Pressu	ure Data					
Upper Completion			Length o	Length of Time Shut-In		s. PSIG	Stabilized?(Yes or No)			
Lower Completion	Hour, D	ate, Shut-In				s. PSIG	Stabilized?(Yes or No)			
	•		I.		1					

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

		1 10	W 1631 NO. 2			
Commenced at:			Zone Pro	oducing (Uppe	r or Lower)	
Time	Lapsed Time		SURE	Prod Zone	_	
(date/time)	Since*	Upper zone	Lower zone	Temperature	Re	emarks
Production rate d	luring test BPOD Based on:	Bbls. In	Hrs.	(Grav.	_GOR
Gas	MCFPD; Test th	ru (Orifice or M	leter)			
Remarks:						
Received approv	al from Brandon Powell Ni	MOCD on 4-19	-12 to vent we	ll to do packer	test.	
I hereby certify th	nat the information herein o	contained is true	e and complet	e to the best o	f my knowledge.	
Approved:		20	Operat	tor: Hilcorp E	Energy Company	
	Dil Conservation Division		Ву:	chavetd		
Ву:			Title: _	Multi-Skilled	Operator	
Title:			Date:	Friday, Febr	uary 26, 2021	

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilco	orp Enei	gy Compa	ny		Lease	Name	JICAF	RILLA E	3		Well No8
Location of We	ell: Unit	Letter	K Se		25	Twp _	026N	R	ge	004W API	# 30-039-21516
		Name of Rese	ervoir or Pool			Typ of P				Method of Prod	Prod Medium
Upper Completion	РС				Gas				Flow		Tubing
Lower Completion	MV				Gas				Artific	ial Lift	Tubing
				Pre	-Flow S	Shut-In	Pressu	ıre Dat	а		
Upper Completion	· ·	ate, Shut-In 19/2011			_	of Time SI	hut-In		SI Pres	0	Stabilized?(Yes or No) Yes
Lower Completion						153			SI Pres	s. PSIG 367	Stabilized?(Yes or No) Yes
					Flo	w Test	t No. 1				
Commenced	at: 5/2	3/2011				Z	one Pro	oducing	(Upper	or Lower): LC	WER
Time (date/time	e)		d Time nce*	Uppe	PRES er zone	SURE Lowe	r zone	Prod Zone Temperature			Remarks
5/24/2011 1:5	5 PM	2	25		0	1	62	6	0	line press=151 up	per=0 (upper zone T/A)
5/25/2011 9:1	MA C	4	15		0	1	60	6	0	line press=150 upper=0 (upper zone T/A	
Production rate	during	test									
Oil:	BPOD	Based on	:	Bbls	s. In		Hrs.			Grav.	GOR
Gas		MCFI	PD; Test thr	u (Orii	fice or M	leter)_					
				Mic	I-Test S	Shut-In	Pressi	ıre Data	а		
Upper Completion	pper Hour, Date, Shut-In		Length of Time Shut-In			SI Press. PSIG		Stabilized?(Yes or No)			
Lower Completion								SI Press. PSIG		Stabilized?(Yes or No)	
	1				l				l		I

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	oducing (Upper	r or Lower)					
Time (date/time)	Lapsed Time Since*		SURE	Prod Zone Temperature	R	emarks				
(uate/time)	Since	Upper zone	Lower zone	remperature	1	emarks				
Production rate during	ı test									
Oil:BPO[Based on:	Bbls. In	Hrs.	(Grav.	GOR				
Gas	MCFPD; Test thr	ru (Orifice or M	leter)							
Remarks:										
Nomano.										
I hereby certify that th	e information herein co	ontained is true	e and complet	e to the best o	t my knowledge.					
Approved:		20	Operat	or: Hilcorp E	nergy Company					
New Mexico Oil Co	onservation Division		By:	applebg						
Ву:			Title:	Multi-Skilled	Operator					
itle: Date: Friday, February 26, 2021										

- A packer leakage test shall be commenced on each multiply completed well within seven days after actual
 completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion.
 Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or
 chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or
 the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when
 requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilcon	rp Ener	gy Com	oany		Lease Name JICARILLA B Well No.						
Location of Wel	II: Unit	_etter _	K	Sec	25	Twp0261	N Ro	ge	004W API	# 30-039-21516	
	N	ame of Re	eservoir or P	ool		Type of Prod			Method of Prod	Prod Medium	
Upper Completion	PC				Gas			Flow		Tubing	
Lower Completion	MV				Gas			Artific	ial Lift	Tubing	
				Pre	-Flow S	Shut-In Press	sure Data	a			
Upper Completion Lower Completion	7/2 Hour, Da	te, Shut-Ir 1/2010 te, Shut-Ir 1/2010				f Time Shut-In		SI Pres	s. PSIG 14 s. PSIG 475	Stabilized?(Yes or No) Yes Stabilized?(Yes or No) Yes	
					Flo	w Test No. 1					
Commenced a	it: 7/24	/2010				Zone P	roducing	(Uppe	r or Lower): LO	WER	
Time (date/time	·)		sed Time Since*	Upp	PRES er zone	SURE Lower zone		Prod Zone Femperature		Remarks	
7/24/2010 9:42	AM		9		14	475		turn on higher pre		essure zone	
7/25/2010 9:09	AM		33		14	193			mv still flowing ok		
7/26/2010 9:27	AM		57		14	185			lower zone ok upp	er zone T&A.	
Production rate	during	est									
Oil:	BPOD	Based o	on:	Bbl	s. In	Hrs		(Grav.	GOR	
Gas		MC	FPD; Tes	t thru (Ori	fice or M	leter)					
				Mic	d-Test S	hut-In Press	ure Data	1			
Upper Completion		Length of Time Shut-In			SI Press. PSIG		Stabilized?(Yes or No)				
Lower Hour, Date, Shut-In Completion					-			SI Pres	s. PSIG	Stabilized?(Yes or No)	
I					(Continu	io on roverse	cido)				

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at: Zone Producing (Upper or Lower)												
Time (date/time)	Lapsed Time Since*	PRES	1	Prod Zone Temperature	Re	marks						
(date/time)	Since	Upper zone	Lower zone	remperature	TX-6	illains						
	Based on:											
Gas	MCFPD; Test thr	u (Orifice or M	leter)									
Remarks:												
upper zone T&A. Only 14# pressure, unable to flow lower zone below 14#. Test complete												
I hereby certify that th	e information herein co	ontained is true	e and complete	e to the best of	f my knowledge.							
Approved:		20	Operat	or: Hilcorp E	Energy Company							
New Mexico Oil Co	nservation Division		Ву:	cassade								
Ву:			Title: _	Multi-Skilled	Operator							
Title: Date: Friday, February 26, 2021												
·	·	· · · · · · · · · · · · · · · · · · ·	_	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·						

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
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- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilcorp Energy Company				Lease Name JICARILLA B Well No.						8			
Location of Well: Unit Letter K Sec				Sec	25	Twp _	026N	R	ge	004W	API	# 30-039-21516	
Name of Reservoir or Pool			Type of Prod			Method of Prod			Prod Medium				
Upper Completion	PC			Gas			Flow			Tubing			
Lower Completion	MV			Gas				Flow			Tubing		
				Pre	-Flow S	Shut-In	Pressu	ıre Data	a				
Upper Completion Hour, Date, Shut-In 7/23/2009 Lower Hour, Date, Shut-In			Length of Time Shut-In			SI Press. PSIG 66 SI Press. PSIG		66	Stabilized?(Yes or No) Yes Stabilized?(Yes or No)				
Completion		23/2009						506		Yes			
					Flo	w Test	No. 1						
Commenced a	at: 7/2	7/2009				Z	one Pro	ducing	(Uppei	or Lowe	er): Lov	ver	
Time (date/time	e)		ed Time nce*	Upp	PRESSURE Upper zone Lower zone		rzone	Prod Zone Temperature			Remarks		
7/28/2009 12:0	7/28/2009 12:00 AM 24			66 40		7:	9						
Production rate	during	test		·									
Oil:BPOD Based on:Bbl				s. InHrsGrav				GOR					
Gas		MCF	PD; Test t	hru (Ori	fice or M	/leter)_							
				Mic	d-Test S	Shut-In	Pressu	ıre Data	a				
Upper Hour, Date, Shut-In Completion				of Time Sh				s. PSIG		Stabilized?(Yes or No)			
Lower Completion	Hour, Da	ate, Shut-In			1				SI Press. PSIG			Stabilized?(Yes or No)	

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	Zone Producing (Upper or Lower)					
Time (date/time)	PRES	1	Prod Zone Temperature	Remarks					
(date/time)	Since*	Upper zone	Lower zone	remperature	Remarks				
Production rate during	test								
Oil:BPOD	Based on:	Bbls. In	Hrs.		GravGOR				
Gas	MCFPD; Test th	ru (Orifice or M	leter)						
Remarks:									
I hereby certify that th	e information herein c	ontained is true	e and complete	e to the best of	f my knowledge.				
Approved:		20	Operat	Operator: Hilcorp Energy Company					
New Mexico Oil Conservation Division				By: gomezag					
Ву:				Title: Multi-Skilled Operator					
Title:			Date: _	Date: Friday, February 26, 2021					

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Oil Conservation Division

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator <u>Hilc</u>	orp Ene	rgy Company		Lease	Name JICAF	RILLA B	3		Well No8	
Location of W	ell: Unit	Letter K Se	ec2	5	Twp026N	R	ge	004W API	# 30-039-21516	
		Name of Reservoir or Pool		Type of Prod			Method of Prod		Prod Medium	
Upper Completion	PC			Gas			Flow		Tubing	
Lower Completion	MV	MV					Artific	ial Lift	Tubing	
			Pre-F	Flow S	Shut-In Pressı	ure Data	а			
Upper Hour, Date, Shut-In Completion 8/25/2008			l	Length of Time Shut-In 78			Stabilized?(Yes or No) Yes			
Lower Completion	Hour, D		104			SI Press. PSIG 225		Stabilized?(Yes or No) Yes		
				Flo	w Test No. 1					
Commenced	at: 8/2	25/2008			Zone Pro	oducing	(Uppe	r or Lower): Lo	wer	
Time (date/tim	Time Lapsed Time (date/time) Since*		PRES Upper zone				Prod Zone emperature		Remarks	
8/25/2008 8:3	8/25/2008 8:30 AM 0		78		225	67		shut in both zones	S.	
8/26/2008 8:3	8/26/2008 8:35 AM 24		78		428	63		check pressures		
8/27/2008 8:2	28 AM	48	78		433	63		check pressures		
8/28/2008 8:3	37 AM	72	78		435	67		check pressures		
8/29/2008 8:3	33 AM	96	78		437	63		check pressures		
8/29/2008 8:3	37 AM	96	78	}	59 66		6	turn on lower zone, flowed below upper zone		
Production rat	e during	test								
Oil: BPOD Based on: Bbl			Bbls.	s. In Hrs.		GravGOR				
Gas		MCFPD; Test th	ru (Orific	e or M	leter)					
			Mid-	Test S	hut-In Pressu	ıre Data	a			
Upper Completion	Hour, D	ate, Shut-In			f Time Shut-In			s. PSIG	Stabilized?(Yes or No)	
Lower Completion	Hour, D	ate, Shut-In					SI Press. PSIG		Stabilized?(Yes or No)	
			(0	Continu	ue on reverse :	side)				

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	Zone Producing (Upper or Lower)				
Time	Lapsed Time Since*	PRES		Prod Zone	Remarks			
(date/time)	Since	Upper zone	Lower zone	Temperature	Remarks			
Production rate during	test							
Oil: BPOD Based on: Bbls. InHrs. Grav. GOR								
GasMCFPD; Test thru (Orifice or Meter)								
Remarks:								
	er zone to tank in orde	r to flow pressu	ires below upp	er zone. Uppe	er zone is TSI. Not producing.			
I hereby certify that th	e information herein c	ontained is true	e and complete	e to the best of	f my knowledge.			
Approved:				Operator: Hilcorp Energy Company				
New Mexico Oil Conservation Division				By: Gomezsg				
Ву:			Title:	Title: Multi-Skilled Operator				
Title:			Date:	Date: Friday, February 26, 2021				

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
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Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilcorp Energy Company				Lease Name JICARILLA B						Well No. 8
Location of Well	: Unit Letter	KSe	ec	25	Twp	026N	Rg	ge	004W API	# 30-039-21516
	Name of	Reservoir or Pool		Type of Prod				Method of Prod	Prod Medium	
Upper Completion	PC			Gas Flo			Flow		Tubing	
Lower Completion	MV			Gas			Artific	ial Lift	Tubing	
			Pre-	Flow S	Shut-In	Pressi	ıre Data	,		
Upper	Hour, Date, Shut	-In	110	1 1011 0	Jiiat III	10000	iic Bate		s. PSIG	Stabilized?(Yes or No)
Completion	7/16/200			Length o	of Time Sh	ut-In		C oc	69	Yes
Lower	Hour, Date, Shut			109				SI Pres	s. PSIG	Stabilized?(Yes or No)
Completion	7/16/200							011100	270	Yes
	77107200	1							210	163
				Flo	w Test	No. 1				
Commenced at	: 7/16/2007	,			Zo	ne Pro	ducing	(Uppe	r or Lower): M\	/
Time Lapsed Time				PRESSURE Prod			Prod 2	Zone		
	(date/time) Since*		Uppe	er zone Lower zone		Temperature			Remarks	
7/16/2007 1:40	PM	0	7	' 4	29	3				
7/17/2007 1:41	PM	24	76		32	6				
7/18/2007 1:41	PM	48	76		333					
7/19/2007 1:42	PM	72	76		14	3			turned lower zone	on.
7/20/2007 1:42	РМ	96	7	76 6		3				
Production rate	during test									
-				s. In Hrs. Gra			(Grav.	GOR	
Gas	М	CFPD; Test th	 ıru (Orifi	ce or N	Лeter)					
				_			_			
			Mid-	-Test S	Shut-In I	Pressu	re Data			
Upper Completion	Hour, Date, Shut	:-In		Length of Time Shut-In				SI Press. PSIG		Stabilized?(Yes or No)
Lower Completion	Hour, Date, Shut	-In						SI Press. PSIG		Stabilized?(Yes or No)
			,	0 (:						

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:			Zone Pro	oducing (Uppe	r or Lower)			
Time (date/time)	Lapsed Time Since*		SURE	Prod Zone		Remarks		
(date/time)	Since	Upper zone	Lower zone	Temperature		Remarks		
Production rate during	y test							
Oil:BPOI	D Based on:	Bbls. In	Hrs.	(Grav.	GOR		
Gas	MCFPD; Test th	ru (Orifice or M	leter)					
Domorko.								
Remarks:								
hereby certify that th	e information herein o	ontained is true	e and complet	e to the best o	f my knowledge	э.		
Approved:		20	Operat	or: Hilcorp E	Energy Compar	ny		
	onservation Division			gomezsg				
Ву:								
			-	Date: Friday, February 26, 2021				
								

- A packer leakage test shall be commenced on each multiply completed well within seven days after actual
 completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion.
 Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or
 chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or
 the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when
 requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3

- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

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**

CONDITIONS

Action 19160

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	372171	19160	PACKER LEAKAGE TEST (NW)

OCD Reviewer	Condition
kpickford	None