State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 HYDRAULIC FRACTURING FLUID DISCLOSURE © Original Amendment						Revised November 6, 2013											
															7. County: Eddy		
									8. Operator Name and Address: OCCIDENTAL PE PO Box 4294 Houston 77210	RMIAN LTD				9. OGRID:	157984	10. Phone Number	er: 713-366-5485
									11. Last Fracture Date: 5/30/2014 Frac Performed by: Nabor					12. Production Type: O			
									13. Pool Code(s):					14. Gross Fractured Interval: 8,400 ft to 12,320 ft 18. Total Volume of Fluid Pumped: 2,201,136 gals 18. Percent of Re-Use Water in Fluid Pumped:			
									N/A		ND CONCENTRA	TOU			t Disclosed	uid Pumped:	
19. HYDRAULIC FLUID Trade Name	Supplier Supplier	Purpose Purpose	Ingredients	(CAS#) Chem Service#	ical Abstract	Maximum Ingred Concentration in mass)		Maximum Ingredient Concentration in HF Fluid (% by mass)									
Water	OCCIDENTAL PETROLEUM	Water	Water	7732-18-5		100%		82.90022%									
Acid Inhibitor 3M (Al-3M)	Nabors Completion	Acid Corrosion	1-DECANOL	112-30-1			5%	0.00032%									
	and Production Services	Inhibitors	1-OCTANOL	111-87-5 111-76-2			2.5% 7%	0.00016% 0.00045%									
	CCIVICCS		2-Butoxyethanol Cinnamaldehyde	104-55-2			6%	0.00045%									
			Ethoxylated	68412-54-4			5%	0.00032%									
			Nonyphenol Ethylone Chron	107-21-1			40%	0.00256%									
			Ethylene Glycol Isopropyl Alcohol	67-63-0			2.5%	0.00250%									
			N,N-Dimethylformamide				20%	0.00128%									
11014 : 1740 5 40 007 00			Triethyl Phosphate	78-40-0			2.5%	0.00016%									
HCI Acid (12.5-18.0%), 22 Baume	Nabors Completion and Production Services	Bulk Acid	22° Baume Hydrochloric Acid Water	7647-01-0 7732-18-5		100%		0.08332% 0.10184%									
ClayTreat LT	Nabors Completion and Production Services	Clay Control Additives	Water	7732-18-5	732-18-5		65%	0.06016%									
OB Breaker	Nabors Completion and Production Services	Gel Breakers	Ammonium Persulfate	7727-54-0			100%	0.00768%									
LSG-100	Nabors Completion	Gelling Agents Proppants - Manufactured	guar gum	9000-30-0 64742-47-8 68439-51-0 67-63-0			50%	0.17619%									
	and Production Services		Petroleum Distillates Surfactant			60%		0.21142% 0.00705%									
Super LT Resin Activator	Nabors Completion		Isopropyl Alcohol				60%	0.02457%									
	and Production Services		Proprietary	Proprietary		80%		0.03276%									
Super OW 3	Nabors Completion and Production Services	Surfactants & Foamers	Dimethylcocoamine, bis (chloroethyl) ether, diquaternary ammonium salt	68607-28-3		60%		0.00082%									
			Isopropyl Alcohol	67-63-0 67-56-1		60% 30%		0.00082% 0.00041%									
TX Specific 20/40 mesh	Nabors Completion	Sand - Bulk - Texas	Methanol Aluminum Oxide	1344-28-1		1.1%		0.00041%									
Sand	and Production		Crystalline Silica, quartz	14808-60-7			99.9%	9.85256%									
	Services		Iron Oxide Titanium Oxide	1309-37-1 13463-67-7			0.1% 0.1%	0.00986% 0.00986%									
TX Specific 30/50 mesh	Nabors Completion	Sand - Bulk - Texas	Aluminum Oxide	1344-28-1 14808-60-7			1.1%	0.01657%									
Sand	and Production		Crystalline Silica, quartz				99.9%	1.50517%									
	Services		Iron Oxide Titanium Oxide	1309-37-1 13463-67-7			0.1% 0.1%	0.00151% 0.00151%									
Atlas CRC-E 20/40	Nabors Completion	Proppants - Manufactured - Atlas	Aluminum Oxide	1344-28-1			1%	0.04714%									
	and Production Services		Crystalline Quartz, Silica Iron Oxide	14808-60-7 1309-37-1		89% 0.1%		4.19518% 0.00471%									
			phenolic resin	9003-35-4			20%	0.94274%									
XL-11	Nabors Completion	Cross-linkers	Titanium Oxide Ethylene Glycol	13463-67-7 107-21-1	13463-67-7 107-21-1		0.1% 10%	0.00471% 0.0085%									
IC-500	and Production	JIOOJ IIINGIS	Potassium Hydroxide	1310-58-3		5%		0.00425%									
	Services		Potassium Metaborate	13709-94-9			30%	0.0255%									
	Nahora Completia	Iron Control	Water 2-Mercaptoethanol or	7732-18-5 60-24-2			75% 75%	0.06375% 0.00371%									
10-300	Nabors Completion and Production	Additives	Z-iviercaptoethanol or Thioglycol	10.45 (0.00) (0.00)			15%	0.00371%									
	Services		Aqua Ammonia	1336-21-6			5%	0.00025%									
Super GREEN SOLV-M	Nahora Completia	Paraffin & Scale Additives	Cupric Chloride	10125-13-0 Proprietary			7% 95%	0.00035% 0.00558%									
Ouper OREEN SOLV-IVI	Nabors Completion and Production		Aliphatic Hydrocarbons Dodecane	Proprietary Proprietary			95% 14%	0.0058%									
	Services		tetradecane	Proprietary			11%	0.00065%									
			Tridecane	Proprietary Proprietary			9% 8%	0.00053% 0.00047%									
EXP-F0829-13	Nabors Completion	Gel Breakers	Undecane Hemicellulase Enzyme	Proprietary Proprietary			1%	0.00047% 4E-05%									
	and Production																

68649-44-5

67-56-1 10222-01-2

3252-43-5

25322-68-3 7647-15-6

7732-18-5

Super TSC 2 LTS

AQUCAR DB 20

Super Stim-340 E

Nabors Completion

Nabors Completion and Production Services Surfactants & Foamers

and Production Services

and Production Services Nabors Completion and Production

Services

Paraffin & Scale Additives

20. 1, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief.

Signature: Signed Electronically Printed Name: David Stewart

Date: 716

Biocides

AMINO METHYLENE PHOSPHONIC ACID SALT

Methanol 2,2-Dibromo-3-nitrilo-

Dibromoacetonitrile Polyethylene glycol Sodium bromide

DI water

propionamide (DBNPA)

Date: 7/16/2014

E-mail Address: david_stewart@oxy.com

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.

100%

100% 20%

3%

54.5%

90%

Title: Sr. Regulatory Advisor

0.00532%

0.01963% 0.00572%

0.00086% 0.01558%

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0.16398%