

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

1. WELL API NO: 30-039-31315
2. Well Name: ROSA UNIT #642H
3. Well Number: 642H
4. Surface Hole Location: Unit: C Lot: 1 Section: 19 Township: 31N Range: 05W Feet from: 975 N/S Line: N Feet from: 524 E/W Line: W
5. Bottom Hole Location: Unit: A Lot: Section: 23 Township: 31N Range: 06W Feet from: 1309 N/S Line: N Feet from: 1 E/W Line: E
6. Latitude: 36.889646 Longitude: -107.405986
7. County: Rio Arriba

**HYDRAULIC FRACTURING FLUID
DISCLOSURE**

Original
 Amendment

8. Operator Name and Address: WPX ENERGY PRODUCTION, LLC PO Box 640 721 South Main Aztec 87410	9. OGRID: 120782	10. Phone Number: 505-333-1801
11. Last Fracture Date: 3/26/2016 Frac Performed by: Liberty Oilfield Services	12. Production Type: G	
13. Pool Code(s): 97232	14. Gross Fractured Interval: 7,284 ft to 12,125 ft	
15. True Vertical Depth (TVD): 6,886 ft	16. Total Volume of Fluid Pumped: 7,596,286 gals	
17. Total Volume of Re-Use Water Pumped: N/A	18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed	

19. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:						
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)
BONDERITE S-AD 221SF	UNIVAR	ACID INHIBITOR	FATTY ACID	Proprietary	30%	0.0003624%
			1-PROPOXY-2-PROPANOL	1569-01-3	30%	0.0003624%
			OLEYL ALCOHOL ETHOXYLATED	Proprietary	10%	0.0001208%
			CYCLIC AMINE REACTION PRODUCT WITH ACETOPHENONE AND FORMALDEHYDE ACID SALT	Proprietary	10%	0.0001208%
			ACETOPHENONE	98-86-2	1%	1.21E-05%
AQUCAR 714	WST	BIOCIDE	GLUTARALDEHYDE	111-30-8	14%	0.007313%
			WATER	7732-18-5	83%	0.0433556%
			QUATERNARY AMMONIUM COMPOUNDS	68424-85-1	2.5%	0.0013059%
			ETHANOL	64-17-5	0.3%	0.0001567%
PRODUCED BRINE WATER	OPERATOR	CARRIER	PRODUCED BRINE WATER	NA	100%	88.1372928%
FRP-E3-8	LIBERTY OILFIELD SERVICES	FRICTION REDUCTION	COPOLYMER OF ACRYLAMIDE AND SODIUM ACRYLATE	25987-30-8	31%	0.0166266%
			ISOPARAFFINIC SOLVENT	64742-47-8	31%	0.0166266%
			WATER	7732-18-5	28.5%	0.0152857%
			SURFACTANT BLEND	Proprietary	5%	0.0026817%
			ETHYLENE GLYCOL	107-21-1	3%	0.001609%
			SODIUM ACETATE	127-09-3	1.5%	0.0008045%
			CRYSTALLINE SILICA, QUARTZ / UNIMIN CORP	LIBERTY OILFIELD SERVICES	SAND	CRYSTALLINE SILICA IN THE FORM OF QUARTZ
SCI-38	LIBERTY OILFIELD SERVICES	SCALE CONTROL	ETHYLENE GLYCOL	107-21-1	40%	0.0087768%
			COPOLYMER OF MALEIC AND ACRYLIC ACID	52255-49-9	30%	0.0065826%
			DETA PHOSPHONATE	15827-60-8	25%	0.0054855%
			HEXAMETHYLENE TRIAMINE PENTA (METHYLENE PHOSPHONIC ACID)	34690-00-1	20%	0.0043884%
			PHOSPHINO CARBOXYLIC ACID POLYMER	71050-62-9	20%	0.0043884%
			HEXAMETHYLENE DIAMINE TETRA (METHYLENE PHOSPHONIC ACID)	23605-74-5	5%	0.0010971%
			HCL-15	LIBERTY OILFIELD SERVICES	SOLVENT	HYDROCHLORIC ACID
WATER	7732-18-5	70%				0.2234433%

20. I, 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: Lila Miller Title: Engineering Tech II
 Date: 4/26/2016
 E-mail Address: Lila.Miller@wpenergy.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.