#### District-I

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

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

## District III

Date: 7-17-14

Phone: 575-393-2727

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

### State of New Mexico

Form C-101 Revised July 18, 2013

## **Energy Minerals and Natural Resources**

# NM OIL CONSERVATION Division

ARTESIA DISTRIZZO South St. Francis Dr.

JUL 22 2014 Santa Fe, NM 87505

☐AMENDED REPORT

Phone: (505) 476-	3460 Fax: (505)	476-3462			~ · · · · · · · · · · · · · · · · · · ·	11112 07000			•	
APPI J	Catio	N FOR PI	ERMIT TO	RECEIVED	) RE-ENTEI	R. DEEPEN	PLUGBAC	K. OR AT	DD A ZONE	
	CATIO	VANO	perator Name a GUARD PER	nd Address RMIAN LLC		TER, DEEPEN, PLUGBACK, OR ADD A ZONE  OGRID Number 258350  API Number 30-025-26472 O(5				
		5847 S. HOU	AN FELIPE, ISTON, TEX	, SUITE 3000 KAS 77057						
4 Property Code 9470				э.	Property Name ONSUREZ			6: Well No.		
					rface Locatio	n				
UL - Lot F	Section 11	Township 23S	Range 28E	Lot Idn	Feet from	N/S Line NORTH	Feet From - 1980	E/W Line WEST	County EDDY	
				· · · · · ·	d Bottom Ho	T	T			
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County	
				<sup>9.</sup> Po	ol Informatio	n .				
	•			Pool 1 EAST L		DVING; 1	Baushy Can	you G	Pool Code 40350	
Projektiva				. Addition:	al Well Infori	nation	<i>J</i>	<b>y</b>		
II. Wor	k Type		O Well Type	ll Type 13 Cable/Ro		ary 14 Lease Type FEE		15. Ground Level Elevation 2990 GL		
16. M	p 16 Multiple 17		Proposed Depth	pth 18. Formatio			PEE  19. Contractor		2990 GL  20. Spud Date	
			6050	<u> </u>					e e e e e e e e e e e e e e e e e e e	
Depth to Grou	ind water		Distan	nce from nearest f	resn water well		Distance	to nearest surfa	ce water	
We will b	e using a c	losed-loop sys	tem in lieu of	lined pits						
		•	· 21. ]	Proposed Cas	sing and Cem	ent Program				
Туре	Type Hole Size		Casing Size Casing Weight/ft			Setting Depth	Sacks of 0	Sacks of Cement Estimate		
	12	_	8 5/8	24		548	350	SX		
	5 1,		5 1/2	15.5		6300		1450 SX		
			3 1, 2	10.0			1130	521		
<u>L</u>			l	g/Cement Pro	ogram: Addit	ional Commen	ts		<del></del>	
	-									
			22, ]	Proposed Blo	wout Prevent	tion Program		,	•	
	- Туре			Working Pressure		Test Pre	ssure	. 1	Manufacturer	
	<u>,,</u>					·				
	s\$-									
23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.						OIL CONSERVATION DIVISION				
I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC, if applicable. Signature:						Approved By: Chand				
Printed name			<u>-</u>		Title	Title: "Geologiet"				
	ENT -			-		Approved Date: 7-24-2016 Expiration Date: 7-24-2016				
E-mail Addre	ss: gheard@	 @oilreportsinc.c	om				- 16 M			

Conditions of Approval Attached

### VANGUARD PERMIAN LLC

#### **ONSUREZ #2**

### 11 T23S R28E API #30-015-26472

- 1. MIRU completion rig and test anchors.
- 2. Kill well with 2% KCL water, if necessary. Unseat pump and POOH w/ rods and pump.
- 3. ND WH and NU BOP. Release TAC and POOH w/ tubing. Lay out 2-7/8" tubing.
- 4. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scraper and 3-1'2" frac string tubing. Clean out hole to PBTD (6290') until clean returns, POOH
- 5. Set the CBP @ 6050'.
- 6. MU 3-1/8" casing guns set at <u>1 spf</u>, <u>180° phasing</u> (<u>0.38" hole</u>, 39.5" penetration).
- 7. Perforate as follows:
  - a. 5790' 5802' (12', 12 holes)
  - b. 5952' 5958' (6', 6 holes)
  - c. 6004' 6006' (2', 2 holes)
  - d. 6024' 6028' (2', 2 shots), 22 holes total
- 8. RD wireline.
- 9. PU a 5-1/2" Arrowset I packer and RIH to ~5750'. Load tubing/hole with 2 % KCl and set packer.
- 10. MIRU pump truck and test lines to 3500 psi.
- 11. Pump 3000 gals 7.5% NEFE acid with rock salt.
  - a. Pump 500 gal then pump 33 ball sealers over next 2000 gals.
  - b. Pump last 500 gals and flush to 6050'.
  - c. Record ISIP, 5 min, 10 min and 30 min.
- 12. RU swabber and swab well in to test acid job. Recover load and report fluid/gas entry.
- 13. RDMO completion rig.
- 14. Call out 5-500 bbl tanks & fill with 2% KCl water. Install frac valve in preparation for frac job down 3-1/2" tubing.
- 15. RU frac Co. and test lines & pump as per frac schedule.
- 16. Monitor ISIP, 5 min, 10 min, 15 min. Flowback until well dies.
- 17. Rig down frac valve and release frac tanks.
- 18. MIRU completion rig.
- 19. Load hole and release packer, POOH and lay out 3-1/2" frac string tubing.
- 20. PU a 4-3/4" bit, sand bailer and 2-7/8" tubing and RIH. Clean out the well as needed and knockout CBP @ 6050' to comingle all zones, POOH.
- 21. RIH w/5-1/2" TAC, SN and 2-7/8" tubing. Set SN at ~6190', discuss with Mike Jones.
- 22. RIH w/ rods and pump.
- 23. RD & MO.
- 24. Turn well on to production.



## **Onsurez 2** Loving East - 30-015-26472

**Eddy County, New Mexico CURRENT COMPLETION - 7/2014** 

3003'

KB:

GL:

2989'

DV tool @ 3525'

CASING PROGRAM												
<u>Depth</u>	<u>Size</u>	Weight	<u>Grade</u>	<u>I.D.</u>	<u>Collapse</u>	<u>Burst</u>						
548'	8 5/8"	24#	J-55	8.097	1,370	2,950						
6300'	5 1/2"	15.5#	J-55	4.892	4,910	5.320						

Surface:

350 sx Class C, TOC @ Surf

Production: 1st stage w/ 500 sx 50/50 poz C + 200 sx CL C, TOC @ DV tool, 2nd

Stage w/ 650 sx PSL C and 100 sx Class C . TOC @ surf

Pardue Perforations:

4728' - 4740'

4750' - 4770'

110 holes

4780' - 4800'

History - Highlights

10/90 - Well spudded

10/90 - Frac'd 6126' - 6182' w/ 42000# sand. ISIP=1100#

6/02 - Frac'd 4728' - 4800' w/ 125320# 16/30 sand + 50840# RC 16/30. ISIP=1001#

Brushy Canyon "C"

6126' - 6136'

6142' - 6148'

6154' - 6156'

6162' - 6166'

6172' - 6176'

6178' - 6182'

PBTD = 6290'

Note: This schematic is not to scale. For display purposes only.



## Onsurez 2

## Loving East - 30-015-26472

Eddy County, New Mexico
PROPOSED COMPLETION - 7/2014

**CASING PROGRAM** KB: 3003' **Grade** <u>I.D.</u> GL: <u>Size</u> Weight Collapse **Burst** 2989' **Depth** J-55 8.097 2,950 548' 8 5/8" 24# 1,370 15.5# J-55 4.892 4,910 5,320 6300' 5 1/2" Cement 350 sx Class C, TOC @ Surf Surface: Production: 1st stage w/ 500 sx 50/50 poz C + 200 sx CL C, TOC @ DV tool, 2nd Stage w/ 650 sx PSL C and 100 sx Class C . TOC @ surf DV tool @ 3525' Pardue Perforations: 4728' - 4740' 4750' - 4770' 110 holes 4780' - 4800' Brushy Canyon "AA" PROPOSED 7/14 5790' - 5802' - 1 spf, 12 holes 12 holes total Brushy Canyon "A" PROPOSED 7/14 5952' - 5958' - 1 spf, 6 holes 6 holes total Brushv Canvon "B" PROPOSED 7/14 6004' - 6006' - 1 spf, 2 holes 6022' - 6024' - 1 spf, 2 holes 4 holes total History - Highlights 10/90 - Well spudded 10/90 - Frac'd 6126' - 6182' w/ 42000# sand. ISIP=1100# 6/02 - Frac'd 4728' - 4800' w/ 125320# 16/30 sand + 50840# RC 16/30. ISIP=1001# Brushy Canyon "C" 6126' - 6136' 6142' - 6148' 6154' - 6156' 6162' - 6166' 6172' - 6176' 6178' - 6182' PBTD = 6290'

Note: This schematic is not to scale. For display purposes only.