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FEB 0 \$ 2015	APPROVED BY: Conditions of Approval (#any):	TITLE Pe	troleum Engineer	DATE	109/19
		~		FEB 0,5 20	15 gm

VGEU 37-31W API # 30-025-40736 ADD PAY

Project Scope

<u>Justification and Background:</u> Add 60' of new perforations & reshoot existing perforations This well is only taking roughly 200 bwpd. The existing perforations were shot at 1 SPF and will be reshot at 4 SPF. The pay add will target the Paddock dolomite beneath the limestone flood target to provide pressure support from the bottom. The pay add will also help with the water handling issues that will begin as the new drill program begins. This well was targeted due to low injectivity. All perforations will be acidized and rock salt will be used for diversion. Based on oil response from wells surrounding high rate injectors, a conservative 7 bopd uplift is expected at a low decline rate of 5%.

Objective and Overview: Add perforations and acidize.

- NDWH. NUBOP. TOOH w/ production Tbg.
- PU & TIH w/ bit & scraper on workstring.
- RIH w/ wireline & perforate.
- RIH w/ workstring & acidize perforations and drop rock salt for diversion.
- LD workstring.
- PU & RIH w/ injection packer, XN profile nipple, on-off tool, & IPC production Tbg.
- Set packer. Land Tbg in hanger. Return to injection.

Table 5: Perforat	ions and the second		
Туре	Formation	Тор	Bottom
Perforations	Paddock	6,040'	6,194'
PBTD		6,366'	
TD		6,409'	

Well Service Procedure:

- 1) MIRU pulling unit. Kill well.
- 2) NDWH, NUBOP. Test BOP. Release packer & TOOH w/ 2 3/8" 4.7# J-55 IPC production Tbg. Visually inspect all Tbg out of hole. Stand Tbg back in derrick. Lay down packer.
- 3) MI lay down machine. PU & TIH w/ bit and scraper sized for 5 ¹/₂" 15.5# J-55 casing on 2 7/8" 6.5# L-80 workstring to PBTD @ 6,366'.
- 4) TOOH w/ work string and stand back in derrick. LD bit and scraper.
- 5) MIRU wireline services. NU 5000 psi lubricator (note: use lubricator shop tested to 2,000 psig is acceptable) and RIH w/ perf guns to perforate using 4" Titan Slick Gun w/ super deep penetrating charges (ch-40g, eh-0.52", pen-52.13") or equivalent loaded at 4 SPF to accomplish 120 degreee phasing. Perforate as follows:

Note: Correlate w/ Schlumberger CBL, Slim Sonic Logging Tool, and CCL-GR dated 01/25/2013

Lower Blinebry	Feet	Shots
6,040' - 6,055' (Proposed)	15	60
6,055' - 6,085' (Active)	30	120
6,095' - 6,125' (Active)	30	120
6,122' - 6,142' (Proposed)	20	80

VGEU 37-31W API # 30-025-40736 ADD PAY

<u>6,169' – 6,194' (Proposed) 25 100</u> Total 120 480

- 6) TOOH with perforating guns and inspect to verify number of shots fired. Record perforations in Wellview. **RD and** release wireline services.
- RU hydro-test services. PU & RIH w/ treating packer on work string testing to 8,200 psig below slips. Set packer @ 5,830' (5 bbl capacity between packer and top perf) (between collars 5,814' & 5,857'). Load backside & test packer to 500 psi surface pressure.
- 8) RU Acid stimulation services. Set pump trips @ 7,800 psi. Set treating line pop-off to release @ 8,000 psi. Test surface lines @ 8,700 psi. Pump 12,000 gal (286 bbls) of 15% Ferchek SC Acid to perforations (6,040' 6,194') and drop 3,050 lbs of rock salt (anticipated treating pressure: ~3,500 psi @ 4-5 BPM, assumes .9 frac gradient). Flush with 39 bbls of brine water. Ensure spring operated relief valve installed, set no higher than 500 psi, on the 2 7/8" x 5 ½" Annulus. Record ISIP, SITP (5 min), SITP (10 min), SITP (15 min).

Acid Stimulation

- a) Pump, establish and record injection rate and pressure w/ field brine water
- b) Pump 2000 gallons (~48 bbls) of acid
- c) Pump 24 bbls (1,000 gal.) of field brine water containing up to a .5#/gal concentration of rock salt (500 lbs) as diverting agent (concentration bases on injection rate / pressure response of existing perforations)
- d) Pump 2000 gallons (~48 bbls) of acid
- e) If pressure increase is marginal on .5#/gal then proceed with 1#/ gal.
- f) Pump 20 bbls (850 gal.) of field brine water containing up to a 1#/gal concentration of rock salt (850 lbs) as diverting agent (concentration bases on injection rate / pressure response of existing perforations).
- g) Pump 2000 gallons (~48 bbls) of acid
- h) Repeat step f & g until acid is put away (~2 more salt stages, ~3 more acid stages @ 2,000 gallons)
- i) Displace acid treatment w/ 39 bbls of brine water
- Note 1: Pressure may not allow for all the rock salt to be pumped.

Note 2: If interval screens off, release pressure, back flush to open top frac tank, then return to acid stimulation.

- 9) Obtain ISIP. Continue monitoring and recording for 15 minutes following shut-in (every 5 minutes).
- 10) RD stimulation equipment. Check pressures and bleed pressure down on casing & Tbg. MI lay down machine. Release packer and TOOH. LD work string & packer.
- 11) PU & RIH w/ injection packer, XN profile nipple, on-off tool, & 2 3/8" 4.7# J-55 IPC production Tbg. Set packer @ 5,991'. Land Tbg in hanger.
- 12) NDBOP. NUWH. Notify MSO to sign off on well.
- 13) RDMO and release all ancillary rental equipment. Place well on injection.

istrict ERMIAN CONVENTI	Field Name	API / UWI 3002540736		ounty EA		State/Province NEW MEXICO
riginal Spud Date	Surface Legal Location			/W Dist (ft)	E/W Ref	N/S Dist (ft) N/S Ret
1/1/2013	Section 31, Township 175	5, Range 35E VERTICAL - Original Hole, 1/	5/2015 11:16:59	153.00 AM	FEL	969.00 FNL
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	3-19;	; Casing Joints; 5 1/2; 4.950; 🕂				ubing TK-99; 2 3/8; 1.995; .5; 64.90
5,916,3 -		3.0; 919.38 ; Casing Joints; 5 1/2; 4.950;				n-Off Tool; 2 3/8; 1.995;
5,947.2 -	5,032	2.4; 40.37				4; 1.00 N Profile Nipple (1.875 x
5,990.2 -	5.07	; Casing Joints; 5 1/2; 4.950; 2.7; 832.26	· · · · · · · · · · · · · · · · · · ·		/[1.791)	; 2 3/8; 1.875; 5,990.4; 0.
5,991,1	.3-22	; MARKER JOINT; 5 1/2;				acker 5 1/2 X 2 3/8 carbid VP; 4 56; 1.995; 5,991.1;
5,002.6	₩ 1888 - 880 1 - 41+3L	0; 5,905.0; 42.32 ; Casing Joints; 5 1/2; 4.950; ·····	🕅		7.25	
5,033.1 - ······		7.3; 42.92				
		; Casing Joints; 5 1/2; 4.950; **** 0.3; 42.93				
3,043.0		prated; 6,055.0-6,085.0;				ated; 6,040.0-6;055.0 erforated; 6,055.0-6,085.0
3,085.0		/2013 prated; 6,095.0-6,125.0;			·······	
3,122.0 -		/2013				erforated; 6,095.0-6,125.0
5,142.1 -	3 05	; Casing Joints; 5 1/2; 4.950;			Perfor	ated; 6,122.0-6,142.0.
5,193.9	6,03	3.2; 332.90			Perfor	ated; 6,169.0-6,194.0
		; Float Collar; 5 1/2; 4.950; 6.1; 1.50				····
3,366.1 -	3-27	; Casing Joints; 5 1/2; 4.950;				
5,397.6		7.6; 40.22				*** * *** ******* **** * ***** * ******
5,407.8		; Float Shoe; 5 1/2; 4.950;			** ** **** * *** **	