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
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

HOBBS OCD AMENDED REPORT

AUG 09 2013

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
Vanguard ~~VANGRUAD~~ PERMIAN LLC P O BOX 1570 281 NORTH NM HIGHWAY 248 EUNICE, NM 88231	258350
	3. API Number 30-025-38825

4. Property Code	5. Property Name	6. Well No.
312410	GRIZZELL B	6

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	8	22S	37E		2310	North	575	EAST	LEA

8. Proposed Bottom Hole Location

UL – Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	8	22S	37E		2310	NORTH	575	EAST	LEA

9. Pool Information

Pool Name	Pool Code
BLINEBRY	

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
P	O	R	STATE	3422 KB
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
Y	5987	BLINEBRY		
Depth to Ground water 80	Distance from nearest fresh water well		Distance to nearest surface water	

☐ **We will be using a closed-loop system in lieu of lined** pits During this procedure we plan to use the Closed-Loop System with a steel tank and haul contents to the required disposal per OCD Rule 19.15.17.1

Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
	12.25	8.625	24	1140		
	17	5.5	17	7429		

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
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: Gaye Heard

Printed name: GAYE HEARD

Title: AGENT

E-mail Address: gheard@oilreportsinc.com

Date: SEP 09 2013 Phone:

OIL CONSERVATION DIVISION

Approved By:

Title: Petroleum Engineer

Approved Date: SEP 09 2013 Expiration Date:

Conditions of Approval: Approval to drill & test all new zones separate, but cannot produce Downhole Commingle until DHC is approved in Hobbs District office according to R-11363.

PM

VANGUARD PERMIAN, LLC

WORKOVER PROCEDURE
Add Perforations, Stimulate & Test the Blinebry
Grizzell B #6
Eunice Area
Lea County, New Mexico
8/6/2013

AFE # _____

Well Data:

RKB - GL: 3432' / 3422'
Surf. Casing: 8-5/8", 24# J-55, set at 1140'
Prod. Casing: 5-1/2", 17# K-55, set at 7429'
Tbg & Pkr: 2 7/8", 6.5# J-55 EUE, set at unknown
Perforations: Drinkard/Tubb/Abo 6,151' – 6,846' (See WBD)
PBTD: 7,379' FC WLM,
BHP: Not certain – well on pump
BHT: 108°F @ TD from logs

Casing Specifications

Depth (ft)	Casing Wt & Grade	Burst	Col	Body Yield	JT Yield	Wall	ID	Drift Dia.	Top Cmt
0 – 1140'	8-5/8, 24#, J-55 ST&C	2,950	1,370	630	381	-	8.097	7.972	Surf.
0 – 7,429'	5-1/2", 17#, K-55	5,320	4,910	273	272	-	4.892	4.767	DV @ 3442'

Safety:

Vanguard's policy on safety as employees and contractors is for everyone to go home safely every day. To this end a safety meeting involving all persons on location will be held at the beginning of each day and prior to any significant activity during the course of this operation. **It is the responsibility of the Wellsite Supervisor to lead these safety**

meetings, document attendance, note in the daily report, and retain the documentation for the permanent well record.

While there are multiple aspects running a safe operation, one key point that should be made at each safety meeting is the Stop Work Authority (SWA) policy. The SWA Policy grants all persons on a Vanguard site, facility, location, or property the **Right, Obligation, Authority, and Responsibility** to stop any work or action that are unsafe to personnel, equipment, or that if continued may damage the environment. This is a key component of our safety policy and must be conveyed to all personnel on location.

Scope of Operations:

Isolate the current Drinkard/Tubb/Abo interval and add 69 new perforations to the Blinebry Formation, fracture stimulate and test the Blinebry.

Contact Information:

Name	Title	Office	Cell
Bryan Kindred	Workover Foreman		575-602-1788
Mike Jones	Production Foreman	575-396-0812	575-390-4611
Newt Painter	Production Superintendent	432-362-2209	432-438-3872
Randall Hicks	Senior Operations Engineer	832-377-2207	713-252-1626
Frank Lemkowitz	Operations Manager	832-377-2237	713-560-3122

Procedure:

1. MIRU completion rig and test anchors.
2. Unseat pump and POOH w/ rods and pump.
3. ND WH and NU BOP. Kill well with 2% KCL water, if necessary. Release TAC and POOH w/ tubing.
4. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scrapper & 2-7/8" tubing. Clean out hole to ~6130' until clean returns, POOH.
5. MI wireline w/ packoff. RIH w/ CBP and GR/CCL & correlate to the Schlumberger Platform Express Log dated 13-Oct-2008.
6. Set CBP @ ~6100'.
7. MU 3-1/8" slick casing guns set at 3 spf, 120° phasing (0.40" hole, 21" penetration).
8. Perforate as follows:
    a. 5475' – 5478' (3', 9 shots)
    b. 5500' – 5504' (4'. 12 shots)
    c. 5652' – 5655' (3', 9 shots)
    d. 5812' – 5816' (4', 12 shots)
    e. 5902' – 5905' (3', 9 shots)
    f. 5938' – 5941' (3', 9 shots)
    g. 5984' – 5987' (3', 9 shots) – (69 total shots)

9. RD wireline.
    a. PU a 5-1/2" Arrowset I packer and RIH to ~5987'.
    b. MIRU pump truck (with 4000 gals acid) and test lines to 3500 psi.
    c. Spot 500 gals of acid across perforations. Load tubing with 2 % KCl and set packer at 5450'. Test packer and casing to 3500 psi
    d. Pump 3500 gals 15% NEFE acid with 125 ball sealers.
    e. Pump 500 gal then drop 125 balls over next 2500 gals.
    f. Pump last 500 gals and flush to 5987'.
    g. Record ISIP, 5 min, 10 min and 30 min.
    h. RU swabber and swab well in to test acid job. Recover load and report fluid/gas entry.
    i. Load hole and release packer, POOH and lay out tubing.

10. RDMO completion rig.
11. Call out 4-500 bbl tanks & fill with 2% KCl water. Install frac valve in preparation for frac job.
12. RU frac Co. and test lines & pump as per frac schedule.
13. Monitor ISIP, 10 min, 15 min. Flowback until well dies.
14. MIRU completion rig.
15. RIH w/ 5-1/2" TAC, SN and 2-7/8" tubing. Set SN at 5875'.
16. RIH w/ rods and pump.
17. RD & MO.
18. Turn well on to production.
19. Test well to determine if we will need to get comingle permit.
20. See additional procedure to comingle zones, if needed.

Note: It is the responsibility of Wellsite Supervisor to enter all daily activity reports and costs into WellView on a timely basis.

Originator:

Randall Hicks
Senior Operations Engineer

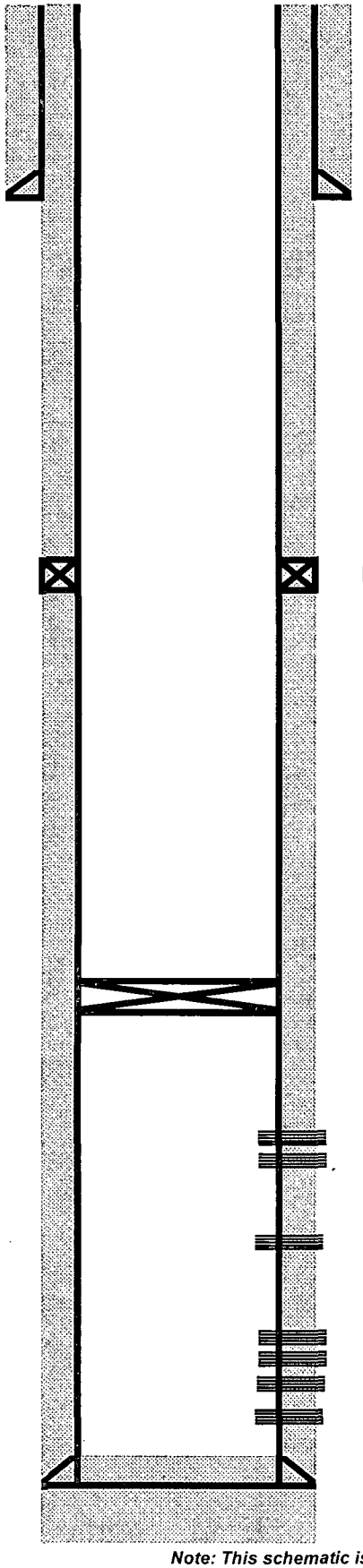
Approved:

Frank Lemkowitz
Operations Manager

Grizzell B #6
Blinebry/Drinkard/Tubbs/Abo - 30-025-38825
Lea County, New Mexico

INTERIM COMPLETION - 7/2013

KB: 3432'
GL: 3422'



CASING PROGRAM

Depth	Size	Weight	Grade	I.D.	Collapse	Burst
1140	8 5/8"	24#	J-55	8.097	1,370	2,950
7429'	5 1/2"	17#	K-55	4.892	4,910	5,320

PRODUCTION TUBING

Depth	Size	Weight	Grade	Threads
unknown	2 7/8"	6.5#	J-55	EUE

DV Tool @ 3442'

Upper Blinebry Perforations 21 holes:
5,475' - 5,478' (3 spf, 9 holes)
5,500' - 5,504' (3 spf, 12 holes)

Middle Blinebry Perforations 21 holes:
5,652' - 5,655' (3 spf, 9 holes)
5,812' - 5,816' (3 spf, 12 holes)

Lower Blinebry Perforations 27 holes:
5,902' - 5,905' (3 spf, 9 holes)
5,938' - 5,941'(3 spf, 9 holes)
5,984' - 5,987'(3 spf, 9 holes)

Composite Bridge Plug @ 6100'

Upper Drinkard/Tubb Perforations 24 holes:
6,151' - 6,155' (3 spf, 12 holes)
6,261' - 6,265'(3 spf, 12 holes)

Drinkard Perforations 36 holes:
6,530' - 6,536' (6 spf, 36 holes)

Abo Perforations 56 holes:
6,596' - 6,598' (8 holes)
6,604' - 6,606' (4 holes)
6,663' - 6,667' (8 holes)
6,700' - 6,704' (8 holes)
6,728' - 6,732' (8 holes)
6,752' - 6,756' (8 holes)
6,797' - 6,800' (6 holes)
6,843' - 6,846' (6 holes)

PBTD = 7,379' FC

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