	District 1 1625 N. French I Phone: (575) 393				Fnorm			w Mexico Natural R	0001F000		Form C-101 Revised November 14, 2012		
HOBBSOCD AUG 0 2 2013	Pistrict 11 7 811 S. First St., 7 Phone: (575) 748				Enci gy			ion Divisio	AMENDED REPORT				
\$ 50 S	Disprimuli 1000-ray Brazes	Road, Azter, M	NM 87410					Francis D		•			
	Phone (505) 334 District IV 159045, St. Franc	is Dr., Santa Fi	e, NM 87505					M 87505	••				
9	មិណ្ឌិះ (505) 476	-3460 Fax: (50	5) 476-3462			Quint		in 07565					
AN N	APPLI	CATIO	ON FOR	PERMIT I	TO DRILL	, RE-EN	TER,	DEEPEN	, PLUGBAC	K, OR A	ADD A ZONE		
	Operator Name and Address     CHEVRON U.S.A. INC.									2 OGRID N 4323	lumber		
	3. 15 SMITH ROAD 4. MIDLAND, TEXAS 79705									API Nu	mber		
										30-025-2	\$165		
	* Prop	erty Code	82	* Property Name H.T. MATTERN NCT-B 21						<sup>b.</sup> Well No.			
	·	- 15			<sup>7.</sup> S	urface Lo	cation		·····	,			
	UL - Loi G	Section 31	Tewnship 21S	Range 37E	Lot Idn	Feet fro 2310		N/S Line NORTH	Feet From 2310	E/W Lin EAST	e County LEA -		
	UL - Lot	Section	1 m	1	1	ed Botton							
	01. • 1.00	Section	Township	Range	Lot Idn	Feet fro	m	N/S Line	Feet From	E/W Lin	e County		
	L	<sup>9</sup> Pool Information											
	Pool Name BLINEBRY OIL & GAS (OIL)										Pool Code 6660		
·	L				Addition	nal Well I	nforma	ution					
	Additional Well												
	RECOMPLETE			<sup>17</sup> Proposed Depth <sup>18</sup> Formatio					20 Spud Date				
	6772' BLINEBRY Depth to Cround water Distance from nearest fresh wate								Distance to nearest surface water				
	Туре	Hol	le Size	21. Proposed Casing and Cement Program Casing Size Casing Weight/ft Setting Depth Sacks of Cement				Comani	Estimated TOC				
		2			NO CH		<u>`</u>	Jennig Depin	Sacks of	Cemen	estimated TOC		
							1						
				<u></u>			<u> </u>						
	Casing/Cement Program: Additional Comments												
	See attached page for closed loop Statement												
				22	Proposed Bi	0wout Pre	eventio	n Program	•				
	Туре			Working Pressure			Test Pressure		Manufacturer				
	L												
- de-	23. 1 1				·		r						
	<ul> <li><sup>21</sup> Hereby certify that the information given above is true and complete to the best of my knowledge and belief.</li> <li>I further certify that I have complied with 19.15.14.9 (A) NMAC and/or</li> </ul>						OIL CONSERVATION DIVISION						
	19.15.14.9 (1				.y (A) NMAC	] and/or	Approv	ed By:		-			
	Signature:	Þ	MBC	Pinke	kton		ļ		ZC		CARD MARK 4		
	Printed name						Title:			Martin Contraction			
			7 SPECIALIS				Approv	fed Date	<u>2013</u>	Apirátion Da	<u>ten Engineer</u>		
	E-mail Addr		d@chevron.c	1				Juar De		• · · ·			
1087	Date: 07/17/	2013		Phone: 432-6	687-7375		Conditi	ions of Approva	Attached				

AUG 05 2013

gree

. DURING THIS PROCEDURE WE PLAN TO USE THE CLOSED LOOP SYSTEM WITH A STEEL TANK AND HAUL TO THE REQUIRED DISPOSAL, PER THE OCD RULE 19.15.17

## 5.21.2013

# Mattern B #21 Blinebry Oil & Gas, Blinebry Reservoir T21S, R37E, Sec. 31 N 32° 26' 10.212", W -103° 12' 2.304" (NAD27) Job: <u>PB to Blinebry and Frac</u>

### PREWORK:

- 1. Utilize the rig move check list.
- 2. Check anchors and verify that pull test has been completed in the last 24 months.
- Ensure location of & distance to power lines is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.

- 4. Ensure that location is of adequate build and construction.
- Ensure that elevators and other lifting equipment are inspected. For wells to be worked on or drilled in an H<sub>2</sub>S field/area, include the anticipated maximum amount of H<sub>2</sub>S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm.
- 6. Review JSA and hazards with rig crew. Visually inspect wellhead, casing and tubing valves. Decide whether tubing and casing valves can be used; replace as needed.
- 7. Scout location and mark off anything that might be hazardous to daily operations.

#### Reminders:

- Caliper all lifting equipment at the beginning of each day or when sizes change. Note in JSA and record on Elevator Change-out Log when and what items are callipered.
- 9. When NU anything over an open wellhead (BOP, EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
- 10. Ensure well is secure/shut in with blind rams between job stages (nothing in well).
- If pumping any cement, plugging back a well or changing producing intervals, always contact the OCD and give the details.
- 12. Hold safety meetings with all personnel on location prior to any major or abnormal operation.

## Procedure:

This procedure is meant to be followed. It is up to the WSM, Workover Engineer and Production Engineer to make decisions necessary to SAFELY do what is best for the well. In the extent that this procedure does not reflect actual operations, please contact WE, PE and Superintendent for MOC.

# NOTE: Schedule Dickey Analytical to be present at Frac. (432-553-2526)

- MIRU workover unit. Verify that well does not have pressure or flow. If well has pressure, note casing and tubing pressures on Wellview report. Bleed down well. Contact WE if well won't bleed down.
- Unseat pump, POOH with rods and pump laying down all rods if the rig will be moving off. Examine rods for wear/pitting/paraffin. Do not hot water unless necessary. ND wellhead, unset TAC, NU BOP dressed with 2-3/8" pipe rams on top and blind rams on btm. NU EPA equipment & RU floor. POOH and LD 1 jt 2-3/8" tbg. PU 5-1/2" packer (Note: production csg shows 14# and 17# K55 mixed) along with a joint of 2-3/8" tubing and set below WH @ ~25'. Test BOP pipe rams to 250 psi/1000 psi. Note testing pressures on Wellview report. Release and LD packer.
- POOH while scanning 2-3/8" prodn tubing. (TAC 6408', Perfs 6,481-6691', EOT 6,697, PBTD 6,736'). LD all non-yellow band joints.

Note: Strap pipe out of the hole to verify depths and note them on Wellview report. Send scan log report to <u>EAUI@chevron.com</u>.

4. MIRU wireline unit. Set up exclusion zone around WL unit. R/U lubricator and test to 1000 psi against blind rams. RIH with 4.625" gauge ring to 6430' to make sure well is free of obstructions. Note in WV and

contact WE if gauge ring sets down, drags, or hangs up inside 5-1/2" csg. If gauge run was clear, RIH with 5-1/2" CIBP and set @ 6415'. PU and set down on CIBP to ensure it set. RIH with dump bailer and dump 35' of cmt on top of CIBP. POOH, fill up csg and test down to CIBP to 250/1000 psi. (Record csg test in WellView in time log and safety/inspections). Notify WE if pressure doesn't hold.

5. If CIBP/csg tested good to 250/1000 psi, continue to step #6. If test failed, PU 5-1/2" packer and TIH to top of CIBP. Set pkr and test again to 250/1000 psi. Test backside to 250/1000 psi. Notify WE after establishing which direction leak-off is occurring.

- 6. PU 5-1/2" RBP and RIH on 2-7/8" 6.5# L-80 WS. Set RBP at 6000'. Release from RBP and spot 750 gals of 10% acetic acid across proposed perfs 5487' - 5942'.
- POOH with 2-7/8" WS and dump 300 lbs of sand on top of RBP. Allow 1-2 hrs for sand to settle onto 7. RBP (Plan for EOD if possible).
- 8. MI & RU Baker Electric Line unit. Set up an exclusion zone and establish radio silence when running perf guns. Install Lubricator and test to 250/1000 psi against blind rams. GIH with 3 3/8" RHSC Gunslinger casing guns (0.42" EH & 47" penetration) and perforate from 5,487-94', 5,500-5,510', 5,516-5,523', 5,529-5,539', 5,546-5,557', 5,586-5,599', 5,609-5,917', 5,620-5,626', 5,633-5,643', 5,648-5,655', 5,662-5,674', 5,678-5,690, 5,695-5,701', 5,785-5,791', 5,834-5,843', 5,867-5,873', 5,894-5,901', and 5,934-5,942 with 3 JSPF at 120 degree phasing, using 32 gram premium charges. POOH. RD & release electric line unit. Note: Reference Welex Gamma-Collar Perforation Record Log dated 1.5.1976 (attached).
- 9. MIUL & strap ~172 jts 3 1/2" 9.3# L80 tbg as frac string. Change out pipe rams to 3 1/2". PU 5 1/2" testing packer on one joint 3 1/2" tubing and set @ ~25'. Test BOP pipe rams to 250/1000 psi. Note testing pressures on WellView report (Time log and safety/inspections). Release and LD packer.
- 10. PU and GIH w/ 5-1/2" Arrow-Set 10K pkr & On-Off tool w/ frac hardened 2.25" "F" profile, blast joint, and 3 1/2", 9.3# 8RD L-80 work string, testing to 8000 psi. Set pkr at approximately ~5,400'. Install 10k frac valve and test 3-1/2" connection to 8000 psi with hydrotesters. Install goat head above FV. Pressure 3-1/2" x 5 1/2" annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.
- 11. RDMO pulling unit. Schedule Dickey Analytical to be present at Frac. 432-553-2526

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12. MI & RU DS Services. Set up exclusion zone around stimulation unit & surface treating lines. Frac well down 3 1/2" tubing at 40 BPM with 2,000 gals 2% KCl, 4,000 gals 15% HCl, 94,000 gals of Viking 3000, 8,000 100 mesh white, 176,000 lbs. 16/30 mesh white, and 30,000 lbs resin-coated Super LC 16/30 mesh. Observe a maximum surface treating pressure of 6400 psi. Pump job per attached Baker frac design.

PROCEDURE

1	- Fluid	12 / <sub>100</sub> 3	3.1.2.15	Proppant	1.6351	> . ·
Stage	Турө	Volume (gal)		туре Х	Stage (lbs)	Cum (Ibs)
1	2% KCI Water	2000		Spacer		~~~~~
2	15% HCI	4000		Spacer		
з	Viking 3000	6000		Pad	1 1	
4	Viking 3000	8000	1.000	100%Sand, White, 100 m	8000	8000
5	Viking 3000	6000		Pad		8000
а	Viking 3000	14000	0.500	100%Sand, White, 16/30	7000	15000
7	Viking 3000	12000	1.500	100% Sand, White, 16/30	18000	33000
8	Viking 3000	12000	2.500	100% Sand, White, 16/30	30000	63000
9	Viking 3000	14000	3.500	100% Sand, White, 16/30	49000	112000
10	Viking 3000	16000	4.600	100%Sand, White, 16/30	72000	184000
11	Viking 3000	6000	5.000	100%Super LC, 16/30	30000	214000
12	30# Linear Gel	20 63		Flush		214000
Total		102063				214000

TREATMENT SCHEDULE

	Surface		Ratos		Volume Survey and State				Stage
· 4	Treating Sturry Clean Prop. Rate		∷ Stu	Pump					
Stage	Pressure (psl)	(opm)	(bpm)	(Ib/min)	(bbis)	Cum (bbis)	Stage (bbis)	Cum (bbls)	Time hh:ma:ss
1	2773	6.0	6.0		47.6	47.6	47.6	47.6	00:07:56
2	5043	20.0	20.0		95.2	142.9	96.2	142.9	00:04:45
3	6051	40.0	40.0		142.9	2857	142.9	285.7	00:03:34
4	5936	40.0	38.3	1606 8	199.2	484.9	190.6	476.2	00:04:58
5	6051	40.0	40.0		142,9	627.7	142.9	619.0	00:03:34
6	5998	40.0	39.1	821.4	340.9	968.6	333.3	952.4	00:08:31
7	5672	40.0	37.5	2359.9	305.1	1273.7	285.7	1238,1	00:07:37
8	5731	40.0	35.9	3773.4	318.0	1591.7	285.7	1523.8	00:07:57
9	5586	40.0	34.5	5076.5	386.1	1977.8	333.3	1857.1	00:09:39
10	5441	40,0	33.2	6281.7	458.5	2436.3	381.0	2238.1	00:11:27
11	6358	40.0	32.5	6826.8	175.8	2612.0	142.9	2381.0	00:04:23
12	4957	40.0	40.0		48.9	2990.9	48.9	2429.8	00:01:13
							Total Pu	mp Time:	

- 13. Flush to 5,487' Do not overflush. Shut well in. Record ISIP, 5, 10, and 15 minute SI tog pressures. SWI. RD & Release Baker Services. Leave well SI overnight.
- 14. Flowback well starting 24 hours after the frac. Open up at 20 bph and work up to 50 bph over the first 6 hours. Flow down until the well dies putting flowback down the flowline if possible. Consult with the pumper and OS if flowback is sent down the flowline.
- 15. MIRU pulling unit. Test 3 1/2" pipe rams to 500 psi against packer.

- 16. ND frac valve, release packer, and circulate kill weight fluid. POOH laying down 3-1/2" frac string and LD 5-1/2" packer.
- Close blind rams. Change 3 ½" pipe rams to 2 <sup>7</sup>/<sub>8</sub>". Open blind rams. PU/RIH and set 5 ½" 14-17# rated packer @ ~ 25' to test 2 <sup>7</sup>/<sub>6</sub>" pipe rams to 250/1000 psi. Release and LD packer.
- 18. PU and GIH with 4-3/4" MT bit on 2-7/8" work string and clean out to top of RBP at approximately 6,000' using 8.6 PPG cut brine water and air unit if necessary (continue to supplemental procedure and in accordance with attached SOG). POOH with 2-7/8" work string and bit. LD bit.

19. RIH with RBP retrieval tool on 2-7/8" 6.5# L-80 WS to pull RBP at 6000'. Wash down through any remaining sand and latch onto RBP. POOH with 2 7/8" 6.5# L-80 WS. LD RBP.

20. PU & GIH with 5-1/2" pkr on 2-7/8" WS. Set pkr at 5,450'. Open well. GIH and swab well until there is no sand inflow. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. Release pkr. POOH LD 2 7/8" work string and pkr.

21. RIH with 2-7/8" production tubing hydrotesting to 6,000 psi. Set TAC per ALCR recommendation. ND BOP. NU WH. RIH with rods and pump per ALCR. Hang well on. RD and release workover unit.

22. Turn well over to production.

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## FOAM / AIR CLEANOUT PROCEDURE

- This procedure is an addition to the original procedure.
  - 1. Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 5,000 psi. If possible, flowback manifold components should be hydrotested before delivery. Hardline pipes from 2" casing valve to manifold to half pit with gas buster. Set up an exclusion zone around flowback line.
  - 2. Install flowback tank downwind from rig.
  - 3. Position Air unit upwind from Rig next to water tanks. Have vacuum truck on standby to empty halfpit. (if needed)
  - RIH with 4 3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS. 4.
  - 5. NU stripper head with NO Outlets (Check stripper cap for thread type course threads preferred). Stripper head to be stump tested to 1,000 psi before being delivered to rig. Check chart or test at rig.
  - 6. RU foam air unit. Make quality foam on surface before going down hole with foam/air. Install flapper float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute

Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.

> 7. Clean out fill to 6,000' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull above the perforations.

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8. When tripping out of hole, have special float bleed off tool available to relieve trapped pressure below float.

Ensure that high quality, stiff foam is pumped while circulating the fill. Stiff foam is required to prevent segregation while circulating. Monitor flow and pressures carefully when cleaning out.

Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition.

Continue on with original procedure for completion.

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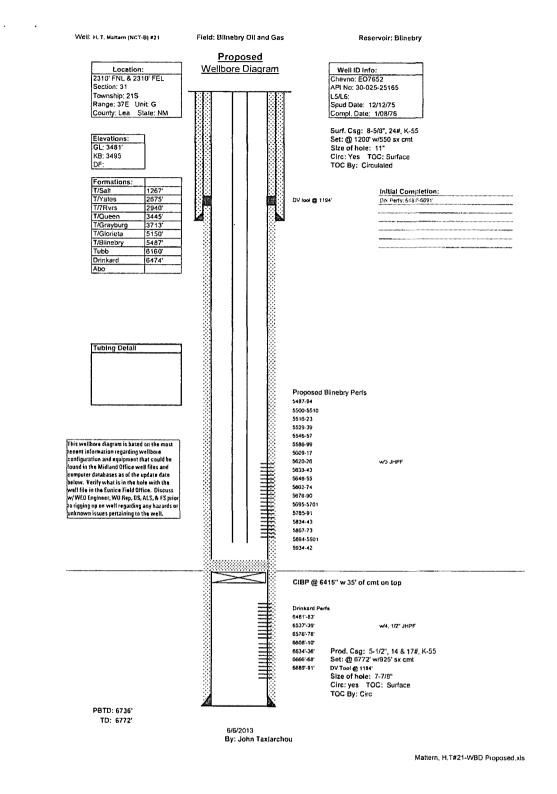
Page 1 of 1

Chevron U.S.A. Inc. Wellbore Diagram : MATB21						
Lease: OEU EUNICE	Well No.: MAT	TERN H T /NCT-B/ 21	······································			
Location: 2310FNL2310FEL	Sec.: N/A		Bik:	Survey: N/A		
County: Lea St.: New Mexico	Refno: E0765	2	API: 3002525165	Cost Center: UCU415000		
Section: 31	Township: 02	15	Range: 037 E			
Current Status: ACTIVE			rs Test Date: 05/03/2013			
Directions:						
	@(1194-119 @(6481-669 @(6481-669 @(6736-673) @(1200-677 @(14-6772) <u>Surface Cas</u> @(14-1200) <u>Tubing Strim</u> 203 @(14-64) 1 @(6408-64 8 @(6411-64) 1 @(6657-66) 1 @(6657-66) 1 @(6657-66) 1 @(6663-66) 1 @(6663-66) 1 @(6663-66) 1 @(6663-66) 1 @(66687-66)	<ol> <li>Producing Interval (Cc</li> <li>Wellbore Hole OD- 7.4</li> <li>Unknown 5.500 OD/ 15.</li> <li>Cement</li> <li><u>g Quantity (Top-Bottom Depth)</u></li> <li>Wellbore Hole OD-11.00</li> <li>Unknown 8.625 OD/ 24.</li> <li>Cement</li> <li><u>g Quantity (Top-Bottom 1</u></li> <li>108) J-55 2.375 OD/ 4.7</li> <li>580 Seat Nipple - Heavy</li> <li>580 J-55 2.375 OD/ 4.7</li> <li>580 J-55 2.375 OD/ 4.7</li> <li>583 Seat Nipple - Heavy</li> <li>584 Nipple - Heavy</li> <li>585 (Cr 8 in.) N-78 (I</li> <li>6651 0.750 (3/4 in.) N-78</li> <li>587) Rod Pump (Insert) (</li> <li>597) Gas Anchor (Rod) 1</li> </ol>	Impletion) - Bare PR 3750 50# Round Short 4. <u>Desc</u> 00 00# Round Short 8. <u>Depth) Desc</u> 00# T&C External Up: her 2.375" 0# T&C External Up: her 2.375" 0.00 D x 2 Rod Sub NON-SERIALIZED) - .000 OD x 10'	097 ID 7.972 Drift set 1.995 ID 1.901 Set 1.995 ID 1.901 Fype set 1.995 ID 1.901		
Ground Elevation (MSL):: 34	31.00	Spud Date: 12/12/197		ol. Date: 01/08/1975		
Well Depth Datum:: CS100001	٧	Elevation (MSL):: 34	95.00 Corre	ection Factor: 14.00		
Last Updated by: fited		Date: 02/19/2013				

evron U.S.A. Inc. Wellborg Diagram (MATR21

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6/6/2013



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