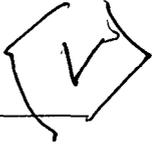


OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014



HOBBS OCD
JAN 28 2016
RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM-090161

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
NMNM-120042X ; W Blinebry Drinkard

8. Lease Name and Well No. (37346)
WEST BLINEBRY DRINKARD UNIT #242

9. API Well No.
30-025- 43046

10. Field and Pool, or Exploratory
EUNICE;BLI-TU-DR, NORTH<22900>

11. Sec., T. R. M. or Blk. and Survey or Area
SEC: 9 T21S R37E

12. County or Parish
LEA

13. State
NM

1a. Type of work: DRILL REENTER

1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator APACHE CORPORATION (873)

3a. Address 303 VETERANS AIRPARK LN #1000
MIDLAND, TX 79705

3b. Phone No. (include area code)
432-818-1167

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 1270' FNL & 2500' FWL
At proposed prod. zone SAME

14. Distance in miles and direction from nearest town or post office*
APPROX 4 MILES NORTH OF EUNICE, NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1270'

16. No. of acres in lease
640 ACRES

17. Spacing Unit dedicated to this well
40 ACRES

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ~ 520'

19. Proposed Depth
7000'

20. BLM/BIA Bond No. on file
BLM-CO-1463 NATIONWIDE / NMB000736

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
GL: 3479'

22. Approximate date work will start*
AS SOON AS APPROVED

23. Estimated duration
~ 8 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature *Sorina L Flores* Name (Printed/Typed) SORINA L. FLORES Date 4/8/15

Title SUPV OF DRILLING SERVICES

Approved by (Signature) *JS/STEPHEN J. CAFFEY* Name (Printed/Typed) Date JAN 25 2016

Title FCR FIELD MANAGER Office BLM-CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.
APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

JS
01/29/14

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

Capitan Controlled Water Basin

Witness Surface Casing

**APACHE CORPORATION (OGRID: 873)
WEST BLINEBRY DRINKARD UNIT #242**

**HOBBS OCD
JAN 28 2016
RECEIVED**

1. Geologic Formations

TVD of target	7000'	Pilot hole depth	N/A
MD at TD:	7000'	Deepest expected fresh water:	65'

Back Reef

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Aeolian	Surface	Water	
Rustler	1280'	Water	
Top of Salt	1370'	Salt	
Tansil	2481'	Barren	
Yates	2645'	Oil, Gas, Water	
Seven Rivers	2880'	Oil, Gas, Water	
Queen	3491'	Oil, Gas, Water	Loss circ
Grayburg	3814'	Oil, Gas, Water	Loss circ
San Andres	4960'	Oil, Gas, Water	Loss circ
Glorieta	5158'	Oil, Gas, Water	
Paddock	5248'	Oil	
Blinebry	5658'	Oil	
Tubb	6141'	Oil	
Drinkard	6448'	Oil	
ABO	6730'	Oil	
TD	7000'	Target Zone	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

See CUSA

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
11"	0	1333' / 1310'	8-5/8"	24	J55	STC	1.125	1.0	1.8
7-7/8"	0	7000'	5-1/2"	17	L80	LTC	1.125	1.0	1.8
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	N/A
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N

**APACHE CORPORATION (OGRID: 873)
WEST BLINEBRY DRINKARD UNIT #242**

If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	250	13.5	1.73	9.13	9	Lead: Cl C + 4% Bentonite + 1% CaCL ₂ + 0.25# CF (12hr: 677psi, 24hr: 1093psi)
	250	14.8	1.35	6.34	5	Tail: Cl C + 2% CaCL ₂ + 0.25# CF (12hr: 1121psi, 24hr: 1795psi)
Prod.	950	12.6	1.95	10.65	8.5	Lead: Cl C 35/65 + 6% Bentonite + 0.1% R-20 + 0.25# CF + 3% Salt (12hr-671psi, 24hr-979psi)
	DV/ECP Tool : N/A					
	300	14.2	1.28	5.81	8.5	Tail: Cl C 50:50 + 2% Bentonite + 0.4% FI-12 + 0.1% R-20 + 0.25# CF + 3% Salt (12hr-910psi, 24hr-16985psi)

***If DVT used: DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.*

*****PRODUCTION CMT CONTINGENCY IF WATER FLOWS ENCOUNTERED*****

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Prod 1 st Stage	260	12.6	1.95	10.65	8.5	Lead: Cl C 35/65 + 6% Bentonite + 0.1% R-20 + 0.25# CF + 3% Salt (12hr-671psi, 24hr-979psi)
	300	14.2	1.28	5.81	8.5	Tail: Cl C 50/50 + 2% Bentonite + 0.4% FL-12 + 0.1% R-20 + 0.25# CF + 3% Salt (12hr-910psi, 24hr-16985psi)
DV/ECP Tool : 4440'						
Prod 2 nd Stage	415	12.6	1.95	10.65	8.5	Lead: Cl C 35/65 + 6% Bentonite + 0.1% R-20 + 0.25# CF + 3% Salt (12hr-671psi, 24hr-979psi)
	100	14.8	1.33	6.32	6.5	Tail: Cl C (12hr-1281psi, 24hr-1951psi)

See
COA

Casing String	TOC	% Excess
Surface	0'	100%
Production	0'	30%

**APACHE CORPORATION (OGRID: 873)
WEST BLINEBRY DRINKARD UNIT #242**

Include Pilot Hole Cementing specs:

Pilot hole depth: N/A

KOP: N/A

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type

4. Pressure Control Equipment

NO A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

*See
COR*

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
7-7/8"	11"	3M	Annular	x	50% of working pressure <i>must test to 3,000 psi</i> 2M 3M
			Blind Ram	x	
			Pipe Ram	x	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low & the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional & tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock & floor safety valve (inside BOP) & choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil & Gas Order #2 III.B.1.i.
NO	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs & hydrostatic test chart.
Y/N	Are anchors required by manufacturer? NO
NO	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. <ul style="list-style-type: none"> • Provide description here See attached schematic.

**APACHE CORPORATION (OGRID: 873)
WEST BLINEBRY DRINKARD UNIT #242**

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. shoe	FW	8.7 – 9.1	32-34	N/C
Surf shoe	TD	Brine	9.8 – 10.2	32-34	N/C

Sufficient mud materials to maintain mud properties & meet minimum lost circulation & weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
X Resistivity	Int. shoe to TD
X Density	Int. shoe to TD
X CBL	Production casing
Mud log	Intermediate shoe to TD
PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3080 psi
Abnormal Temperature	NO

Mitigation measure for abnormal conditions. Describe: Lost circulation material/sweeps/mud scavengers.

*see
COR*

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
X	H ₂ S is present
	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe. N/A

Will be pre-setting casing? If yes, describe. N/A

Attachments

N/A Directional Plan

N/A Other

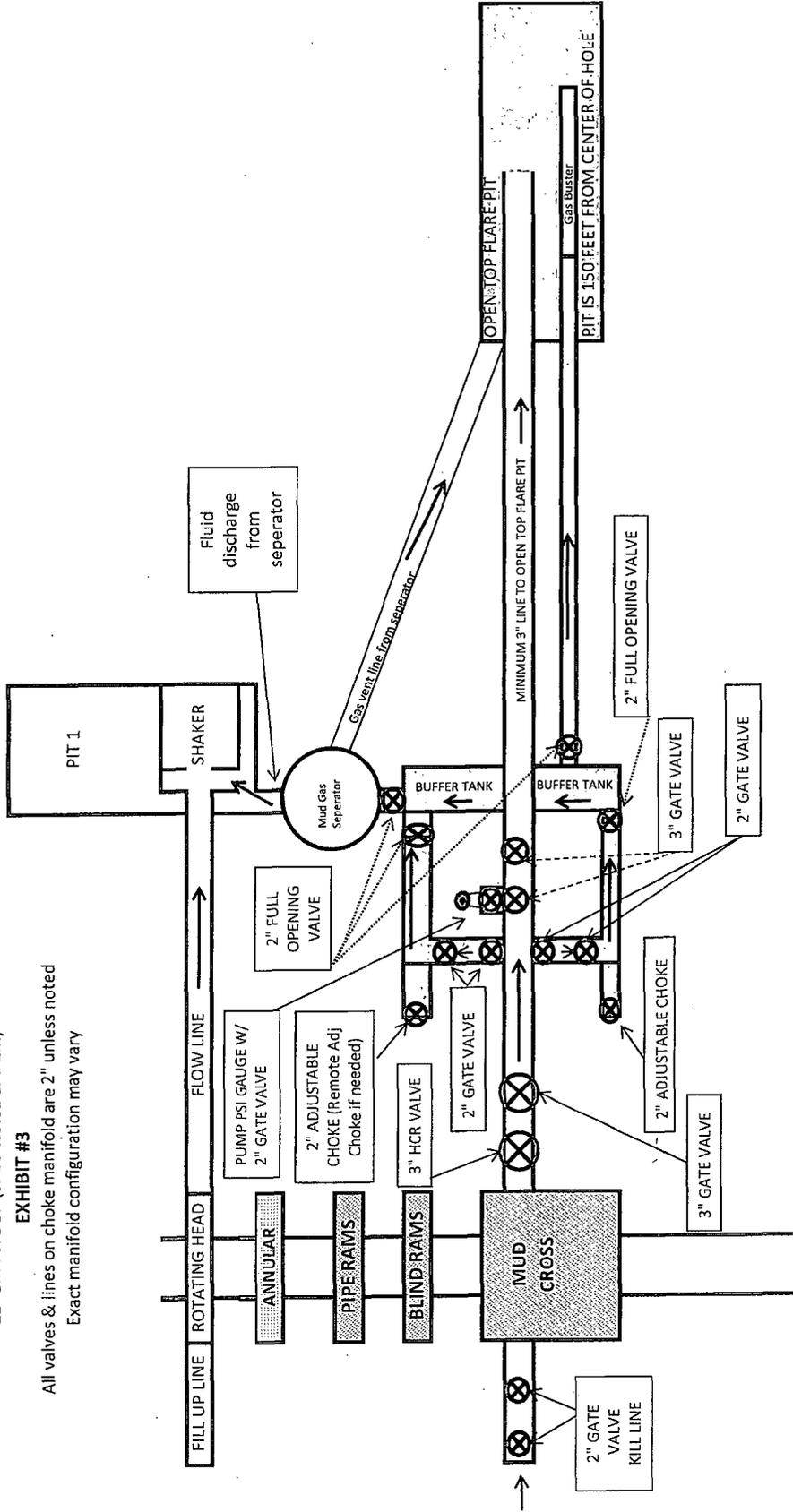
APACHE BOP AND CHOKE MANIFOLD SCHEMATIC

3M BOP must be tested to 3,000 psi

11" 3M PSI BOP (to be tested as a 2-1/4")

EXHIBIT #3

All valves & lines on choke manifold are 2" unless noted
Exact manifold configuration may vary



*** If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke ***

Apache

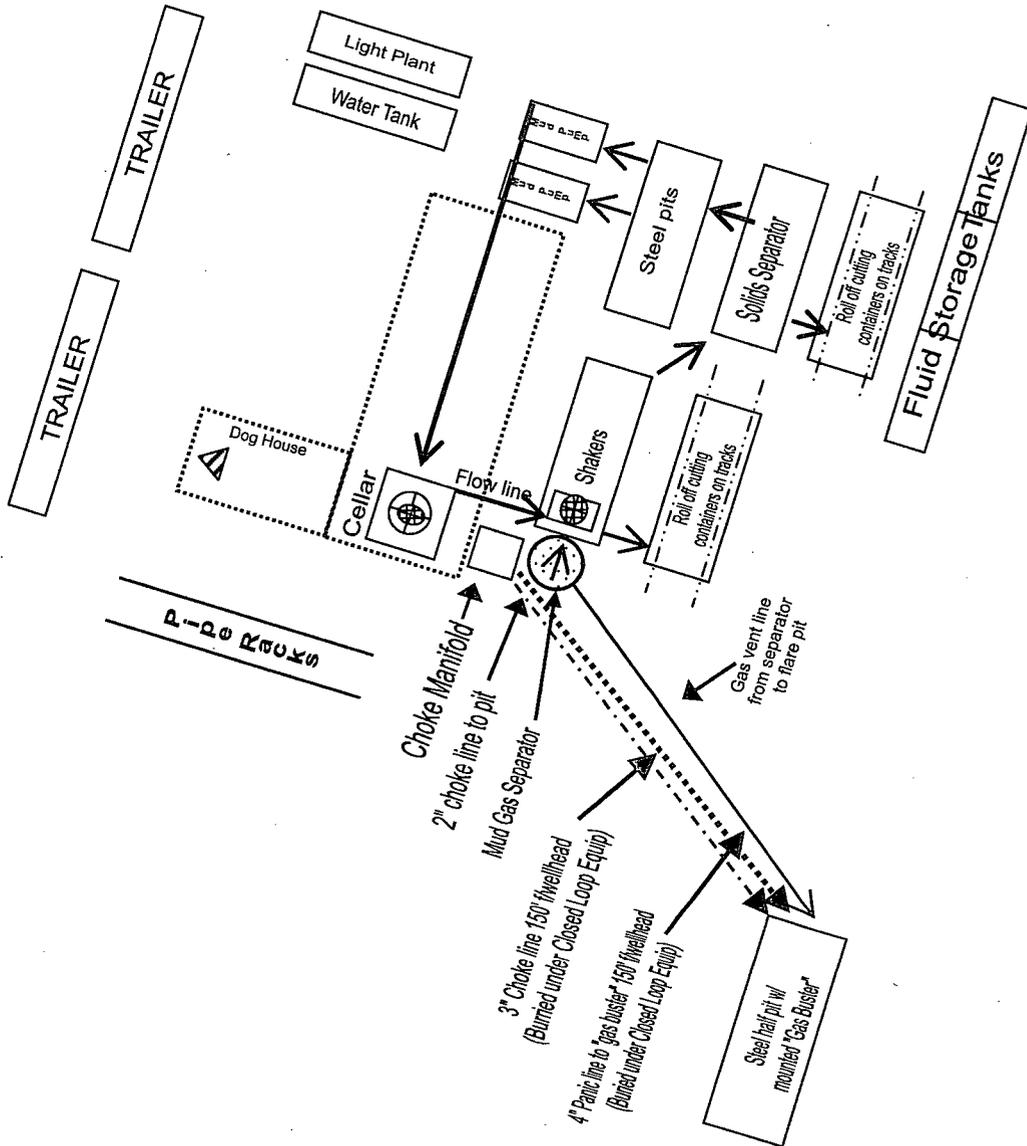
Closed Loop Equipment Diagram

Exhibit 4



West Blinberry Drinkard Unit #242

Approx 179.94' of
new road



**RIG ORIENTATION & LAYOUT
 WEST BLINEBRY DRINKARD UNIT 242
 EXHIBIT 5**

