	F THE INTERIOR ND MANAGEMENT	PRES OCD CT 01 2012 WRECEIVED	FORM AF OMB No. 1 Expires Ma 5. Lease Serial No. NMNM-14812 6 If Indian, Allotee o	1004-0137 rch 31, 2007		
la. Type of work: 🔽 DRILL	REENTER		7. If Unit or CA Agreer	nent, Name and No.		
lb. Type of Well: ✓ Oil Well ☐ Gas Well ☐ C	Other Single Zone	Multiple Zone	8. Lease Name and We WERTA FEDE			
2. Name of Operator APACHE CORPORATION			9. API Well No. 30-025-	1799		
3a. Address 303 VETERANS AIRPARK LN #3000 MIDLAND, TX 79705	10. Field and Pool, or Exploratory House; Drinker House; Blivebry (33230) House; Tubb, N. (33470)					
4. Location of Well (Report location clearly and in accord At surface 335' FAL & 990' FEL At proposed prod. zone SAME	lance with any State requirements.*) Uni+P		11. Sec., T. R. M. or Blk UL: P SEC: 35	and Survey or Area		
14. Distance in miles and direction from nearest town or pos APPROX 8 MILES SOUTH OF HOBBS, NM	t office*		12. County or Parish LEA	13. State		
15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig unit line, if any)	16. No. of acres in lea		ng Unit dedicated to this we			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ~900'	19. Proposed Depth 7400'	25. Troposed 2 ep.ii.		/BIA Bond No. on file I - CO - 1463 NMB000 736		
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3579'		ts Approved	23. Estimated duration ~ 15 DAYS			
The following, completed in accordance with the requiremen	24. Attachments		his form			
Well plat certified by a registered surveyor A Drilling Plan. A Surface Use Plan (if the location is on National For SUPO shall be filed with the appropriate Forest Service).	est System Lands, the Office). 4. Bo Iter	nd to cover the operation 20 above). erator certification	ons unless covered by an ex	,		
25. Signature Sorino PHO Title	Name (Printed) SORINA	Typed) A L. FLORES	D	Pate 6/28/12		
Approved by (Signature) /S/ Don Peters	Name (Printed)	Typed) /s/ Don	Peterson ¹	Date SEP 2 8 2012		
Title (FIELD MANAGER	Office	CA	ARLSBAD FIELD OF			
Application approval does not warrant or certify that the approval operations thereon. Conditions of approval, if any, are attached.	plicant holds legal or equitable title	•	bject lease which would ent	**		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representations.	make it a crime for any person kno entations as to any matter within its ju	wingly and willfully to urisdiction.	make to any department or	agency of the United		
*(Instructions on page 2)						
ea County Controlled Water Basin	Kajoli	la App	oroval Subject to Ge & Special Stipula	eneral Requirements tions Attached		

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

SEE ATTACHED FOR

SEE ATTACHED FOR CONDITIONS OF APPROVAL

DRILLING PLAN: BLM COMPLIANCE (Supplement to BLM 3160-3)

APACHE CORPORATION (OGRID: 873) WERTA FEDERAL #3

Lease #: NM-14812 Projected TD: 7400' GL: 3579' 335' FSL & 990' FEL UL: P SEC: 35 T19S R38E LEA COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION: Quaternary Aeolian Deposits

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

FORMATION	WELL DEPTH	WATER/OIL/GAS
Quaternary Aeolian	Surf	
Rustler	1594'	
Salt Top	1670′	
Salt Bottom	2798′	' .
Yates	2869′	
Seven Rivers	3120′	
Queen	3686′	
Grayburg	4035′	
San Andres	4323′	
Glorieta	5596′	
Paddock	5654'	
Blinebry	5962'	Oil
Tubb	6455′	Oil
Drinkard	6907′	Oil
ABO	7154′	Oil
TD	7400'	
Depth to Ground Water:	~ 55′	

All fresh water & prospectively valuable minerals, as described by BLM, encountered during drilling, will be recorded by depth and adequately protected. All oil & gas shows within zones of correlative rights will be tested to determine commercial potential.

3. CASING PROGRAM: All casing is new & API approved

HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
12-1/4"	0' 1650'	8-5/8"	24#	STC	J-55	1.125	1.0	1.8
7-7/8"	0'-7400'	5-1/2"	17#	LTC	L-80	1.125	1.0	1.8

4. CEMENT PROGRAM:

A. 8-5/8" Surface cmt with (100% excess cmt to Surface):

Lead: 625 sx Class C w/ 2% CaCl2, 0.13# CF, 3# LCM1, 0.005 gps FP-6L, 4% Bentonite

(13.5 ppg, 1.75 yld) Comp Strengths: **12 hr** - 500 psi **24 hr** - 782 psi

Tail: 200 sx Class C w/ 1% CaCl2, 0.13 # CF, 0.005 gps FP-6L

(14.8 ppg, 1.34 yld) Comp Strengths: **12 hr** ~ 755 psi **24 hr** ~ 1347 psi

B. 5-1/2" Production cmt with (30% excess cmt; cmt to surf):

<u>Lead</u>: 600 sx (35:65) Poz Cl C w/ 5% CaCL2, 0.125 # CF, 3# LCM1, 0.5% FL52, 0.005gps FP6L, 6% Bentonite, 0.3% Sodium Metacilicate (12.6ppg, 2.0 yld) Comp Strengths: **12 hr** - 603 psi **24 hr** - 850 psi

<u>Tail:</u> 350 sx (50:50) Poz Cl C w/ 5% CaCL2 + 0.13% CF, 3# LCM1 + 0.005gps FP6L + 2% Bentonite + 1% FL25 + 1% BA58 + 0.1% Sodium Metasilicate (14.2 ppg, 1.31 yld) Comp Strengths: **12** hr ~ 850 psi **24** psi – 1979 psi

^{**} The above cmt volumes could be revised pending caliper measurement from open hole logs. TOC is designed to reach surface on Surface and Production. The above slurry design may change, but will meet BLM specifications. All slurries will be tested prior to loading to confirm thickening times & a lab report furnished to Apache. Fluid loss will be tested & reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement.

5. PROPOSED CONTROL EQUIPMENT

"EXHIBIT 5" shows a 900 series 11" 3M psi WP BOP consisting of an annular bag type preventer, middle blind rams, bottom pipe rams. The BOP will be nippled up on the 8-5/8" csg and utilized continuously until TD is reached. The BOP will be tested at 2000 psi, maximum surface pressure is not expected to exceed 3M psi, BHP is calculated to be approximately 3212 psi. *All BOP's and associated equipment will be tested as per BLM Drilling Operations Order #2. The BOP will be operated and checked each 24 hr period & the blind rams will be operated & checked when the drill pipe is out of the hole. Functional tests will be documented on the daily driller's log. "EXHIBIT 5" also shows a 3M psi choke manifold with a 4" panic line. Full opening stabbing valve & Kelly cock will be on derrick floor in case of need. No abnormal pressures of temperatures are expected in this well. No nearby wells have encountered any problems.

*Contingency: Apache rewpectfully requests a variance for using a flexhose contingent on type of rig used due to rig scheduling

6. AUXILIARY WELL CONTROL EQUIPMENT / MONITORING EQUIPMENT:

11" x 3000 psi Double BOP/Blind & pipe ram (3M BOP/BOPE to be used as 2M system)

4-1/2" x 3000 psi Kelly valve

11" x 3000 psi mud cross – H2S detector on production hole

Gate-type safety valve 3" choke line from BOP to manifold

2" adjustable chokes - 4" blow down line

Fill up line as per Onshore Order #2

7. PROPOSED MUD CIRCULATION SYSTEM: (Closed Loop System)

INTERVAL	MW (ppg)	VISC (sec/qt)	FLUID LOSS (cc)	MUD TYPE
0' -1650'	8.3	28 – 32	NC	Fresh Water
1650 – 7100′	10	28 – 32	NC	Brine
7100' – TD	10.1 – 10.2	32 – 33	10 - 12	Cut Brine

^{**} The necessary mud products for weight addition and fluid loss control will be on location at all times. In order to run open hole logs & casing, the above mud properties may have to be altered to meet these needs.

8. LOGGING, CORING & TESTING PROGRAM:

- A. OH logs: Dual Laterolog, MSFL, CNL, Litho-Density, Spectral Gamma Ray, Caliper & Sonic from TD back to last csg shoe.
- B. Run CNL, Gamma Ray from last csg shoe back to surface.
- **C.** No cores or DST's are planned at this time. Mud log will be included on this well.
- **D.** Additional testing will be initiated subsequent to setting the 5-1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows & drill stem tests.

9. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. There is known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of *Onshore Oil & Gas Order No. 6 (SEE EXHIBIT 6)*. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 3212 psi and estimated BHT: 115°.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Road and location construction will begin after BLM has approved APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as rig will be available. Move in operations and drilling is expected to take 8 - 10 days. If production casing is run then an additional 90 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

11. OTHER FACETS OF OPERATION:

After running csg, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The House;Blinebry, House;Tubb, House;Drinkard formations will be perforated and stimulated in order to establish production. The well will be swab tested & potentialed as an oil well.

Gel



