JUL 03 2014

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BUREAU OF LAND MANAGEMENT

Split Estate

Form3160-3 (March 2012)

OCD Hobbs DEPARTMENT OF THE INTERIOR

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

5. Lease Serial No NMNM-12057 12505

APPLICATION FOR PERMIT TO DI	6. If Indian, Allotee or Tribe Name					
Ia. Type of work:	7 If Unit or CA Agreement, Name and No.					
Ib. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well No. LOCKHART B 12 #15 < 24428>					
2. Name of Operator APACHE CORPORATION	3>		9. API Well No. 30-025-4-194	43		
303 VETERANS AIREARK LIN # 1000	TERANS AIRPARK LN #1000 3b. Phone No. (include area code) 432-818-1167			10. Field and Pool or Exploratory Blinebay 09446660; Drinkard <19196 Fubbote 6602462; Wante 178066		
4 Location of Well (Report location clearly and in accordance with any S	State requirements.*)			Blk. and Survey or Area		
At surface 1950' FNL & 2540' FWL At proposed prod. zone SAME			UL: SEC: 12	T21S R37E		
14. Distance in miles and direction from nearest town or post office* APPROX 4 MILES NORTHEAST OF EUNICE, NM			12. County or Parish LEA	13. State NM		
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 lease 1200 ACRES		g Unit dedicated to this	well		
18. Distance from proposed location* to nearest well, drilling, completed, ~ 100' applied for, on this lease, ft.	· F · · · · · · · · · ·		N/BIA Bond No. on file -CO-1463 NATIONWIDE / NMB000736			
	2 Approximate date work will star AS Soon As Appr		23. Estimated duration ~ 10 DAYS			
	24. Attachments					
The following, completed in accordance with the requirements of Onshore C	Oil and Gas Order No.1, must be a	ttached to thi	is form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Land SUPO must be filed with the appropriate Forest Service Office). 	Item 20 above). onds, the 5. Operator certific	ation	•	existing bond on file (see		
25. Signature Soi Stone	Name (Printed/Typed) SORINA L. FLORES	1 * * * * * * * * * * * * * * * * * * *		Date 12/17/13		
Fille SUPV OF DRILLING SERVICES						
Approved by (Signature) Steve Caffey	Name (Printed/Typed)			^D JUN 1 9 2014		
FIELD MANAGER	Office	CARLSB	AD FIELD OFFICE			
Application approval does not warrant or certify that the applicant holds lo conduct operations thereon. Conditions of approval, if any, are attached.	egal or equitable title to those righ	ts in the sub AP	jectlease which would e PROVAL FO	entitle the applicant to R TWO YEARS		
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crim States any false, fictitious or fraudulent statements or representations as to a	e for any person knowingly and v any matter within its jurisdiction.	villfully to m	nake to any department o	or agency of the United		

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

E-PERMITTING - - New Well Comp____ P&A____ CSNG_____ Loc CHG Add New Pool Cancl Well_

Kr/01/14

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

JUL 0 8 2014

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 E. GREENE STREET CARLSBAD, NM 88220

OPERATOR CERTIFICATION

I HEARBY CERTIFY THAT I, OR SOMEONE UNDER MY DIRECT SUPERVISION, HAVE INSPECTED THE DRILL SITE AND ACCESS ROUTE PROPOSED HEREIN; THAT I AM FAMILIAR WITH THE CONDITIONS WHICH CURRENTLY EXIST; THAT I HAVE FULL KNOWLEDGE OF STATE AND FEDERAL laws applicable to this operation; that the statements made in the APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 13 day of William bur, 2013
Well: LOCKHART B 12 #15
Operator Name: APACHE CORPORATION
Signature: Printed Name: BARRY GREEN
Title: Drilling Engineer Date: 12/13/2013
Email (optional): barry.green@apachecorp.com
Street or Box: 303 Veterans Airpark Ln., Ste. 1000
City, State, Zip Code: Midland, TX 79705
Telephone: 432-818-1059
Field Representative (if not above signatory):
Address (if different from above):
Telephone (if different from above):
Email (ontional):

12

Agents not directly employed by the operator must submit a letter from the operator authorizing that the agent to act or file this application on their behalf.

PRIVATE SURFACE OWNER AGREEMENT

OPERATOR: APACHE CORPORATION
WELL NAME: LOCKHART B 12 #15
UL: F SECTION: 12 TOWNSHIP: 215 RANGE: 37E
LOCATION: 1950' FNL & 2540' FWL COUNTY: LEA STATE: NM
LEASE NUMBER: NMNM - 0557256
STATEMENT OF SURFACE USE
The surface to the subject land is owned by MC NEILL RANCH ATTN: PAIGE MC NEILL PO BOX 1092, HOBBS, NM 88241 575-390-2870
The surface owner has been contacted regarding the drilling of the subject well, and an agreement for surface use has been negotiated.
CERTIFICATION: I hereby certify that the statements made in this statement are to the best of my knowledge, true and correct.
NAME: BARRY GREEN
SIGNATURE: DATE: 12/13/2013
DATE: 12/13/2013
TITLE: DRILLING ENGINEER
To expedite your Application to Drill please fax the completed form to the Bureau of Land Management (575) 234-5927 or (575) 885-9264 Attn: Legal Instruments Examiner

The original document with signature should be mailed as soon as possible.

620 E. Green Street Carlsbad, NM 88220

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

APACHE CORPORATION (OGRID: 873) LOCHART B 12 #15

Lease #: NMLC-032096B Projected TD: 7700' 1950' FNL & 2540' FWL UL: F SEC: 12 T21S R37E LEA COUNTY, NM

GEOLOGIC NAME OF SURFACE FORMATION: **Quaternary Aeolian Deposits**

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

Quaternary Aeolian	Surf	San Andres	4183'
Rustler	1435'	Glorieta	5318′
Salt Top	1500′	Blinebry	5705' (Oil)
Salt Bottom	2548'	Tubb	6174' (Oil)
Yates	2690′	Drinkard	6644' (Oil)
Queen	3550'	ABO	6874' (Oil)
Grayburg	3901'	TD	7700'

Depth to Ground Water:

65

All fresh water & prospectively valuable minerals, as described by BLM, encountered during drilling, will be recorded by depth & 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

Su	
CaA	

HOLE SIZE	DEPTH	NOD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
11"	0'-1470'	8-5/8"	24#	STC	J-55	1.125	1.0	1.8
7-7/8"	0'-1000'776	ສ ່ 5-1/2"	17#	LTC	L-80	1.125	1.0	1.8
_7-7/8"	1000′-7700′	5-1/2"	1.7#	LTC	J-55	1_125	1.0	1.8
CEMENT PR	OGRAM:	per	-Sonraf	-lares (4118112			
A 0.5/0% Sunface and with (1000) and a sunface Cont. Cont.								
	30 au Clasa C/	29% CaCl2	1% Rontonit	o /12 5 nna	1 75	Ne	ed f	
Lead: 32	zu sx ciass c w/	2/0 CaCI2, 4	4/0 DEHLOHIU	C 113.3 DDU,	. 1.75 VIAI	•	L.X	e//
	20 sx Class C w/ np Strengths: 1				, 1.75 yia)	Slur	yVac	e/ / ,
. Con	np Strengths : 1	2 hr – 755		– 1347 psi		5/487	y y a C	el [][60
. <u>Con</u>	•	2 hr – <i>7</i> 55 1% CaCl2	psi 24 hr	– 1347 psi (14.8)	, 1.75 yia) opg, 1.34 yla	Slury)	y y a co	el
Con Tail: 180 Con	np Strengths: 1 O sx Class C w/	2 hr - 755 1% CaCl2 2 hr - 500	psi 24 hr psi 24 hr	– 1347 psi (14.8 j – 782 psi	ppg, 1.34 yla	Slurry Vol	yma -	(d) 60°

4. CEMENT PROGRAM:

Lead: 660 sx (50:50) Poz C w/ 5% Sodium Chloride, 6% Bentonite

(12.5ppg, 2.04 yld)

Comp Strengths: 12 hr - 344 psi 24 hr - 835 psi

Tail: 450 sx (50:50) Poz C w/ 5% Sodium Chloride, 2% Bentonite (14.2 ppg, 1.31 yld)

Comp Strengths: **12 hr** - 869 psi **24 psi** - 1768 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. For Surface csg: If cmt does not circ to surface, the appropriate BLM office shall be notified, TOC shall be determined by a method approved by BLM, operator will propose a remediation method & request BLM approval. 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 MUST 45+ to 3,000 PSI

"EXHIBIT 3" shows a 11" 3M psi WP BOP consisting of an annular bag type preventer, middle pipe rams, bottom blind 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 ps psi, maximum surface pressure is not expected to exceed 2M psi, BHP is calculated to be approximately 3388 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. Function tests will be documented on the daily driller's log. "EXHIBIT 3" also shows a 3M psi choke manifold with a 3" blow down 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 well control problems.

6. AUXILIARY WELL CONTROL EQUIPMENT / MONITORING EQUIPMENT:

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)

See COA

INTERVAL 150	MW (ppg)	VISC (sec/qt)	FLUID LOSS (cc)	MUD TYPE
0'-1470' 152	8.4	28 – 32	NC	Fresh Water
1470' 7100'	9.8 – 10.0	28 – 32	NC -	Brine ·
7100' – 7700'	9.0 - 10.0	28 - 32	10 - 12	Cut Brine

^{**} Visual mud monitoring equipment shall be in place to detect volume changes. A mud test shall be performed every 24 hrs after mudding up to determine, as applicable: density, visc, gel strength, filtration, and pH. The necessary mud products for weight addition & fluid loss control will be on location at all times. In order to run open hole logs & casing, the above mud properties maybe 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 8-5/8" csg shoe.
- B. Run CNL, Gamma Ray from 8-5/8" 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.

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*. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 3388 psi and estimated BHT: 115°.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

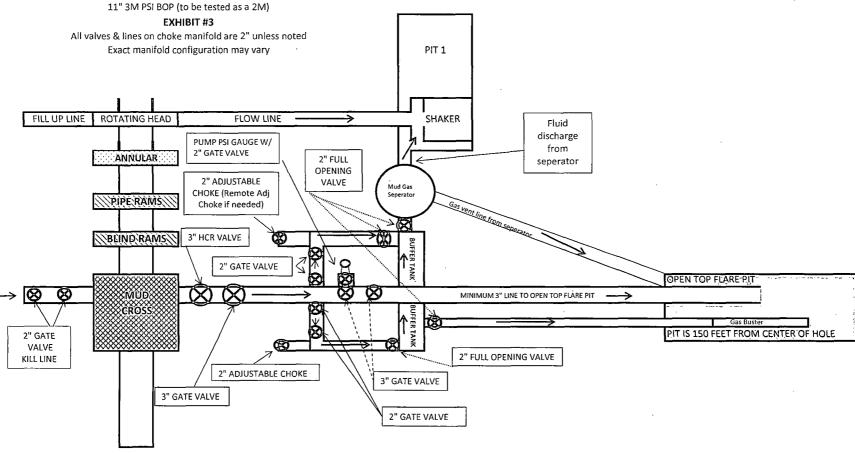
Road and location construction will begin after BLM has approved APD. Anticipated spud date will be as soon after BLM approval and as soon as rig will be available. Move in operations and drilling is expected to take ~10 days. If production casing is run then an additional 90 days will be needed to complete 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 Blinebry, Tubb, Drinkard & Wantz; ABO formations will be perforated and stimulated in order to establish production. The well will be tested & potentialed as an oil well.

APACHE BOP AND CHOKE MANIFOLD SCHEMATIC

LOCKHART B 12 #15



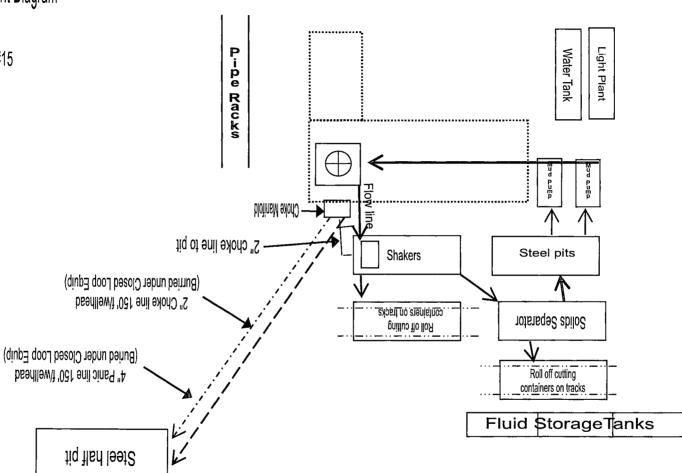
^{***} If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke ***



Exhibit 4

Lockhart B 12 #15





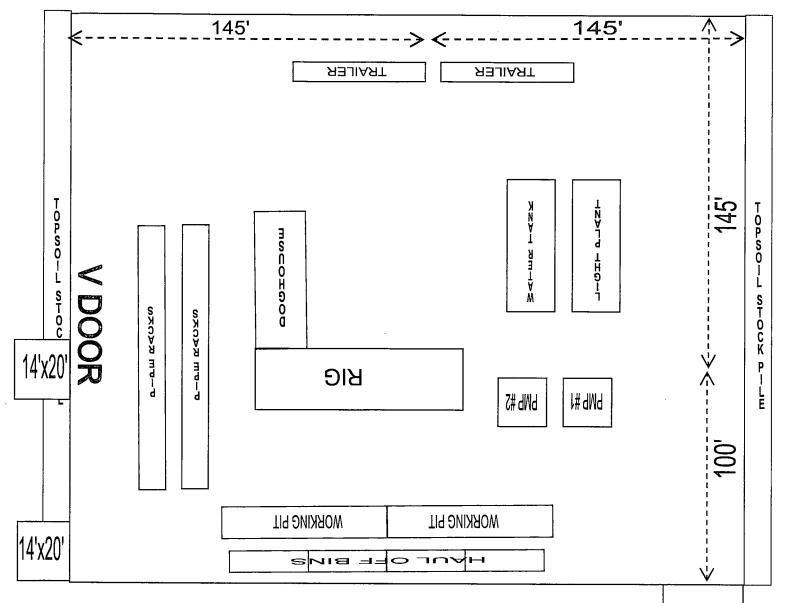
TRAILER

TRAILER

new road

RIG ORIENTATION & LAYOUT LOCKHART B 12 #15 EXHIBIT 5





Approx 53.2' of new road

Apache

Drilling Location
H2S Safety Equipment Diagram
Exhibit 3A





