°yes v≩ ∖	,		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>S</b>			16-805
Form 3160-3 (March 2012)	1	НО	BBS OC	UP Hobb	S FORM OMB	M APPROVE	
` ´	UNITED STATES	NUTERIAN	MAY 0 9 2016	n	OMB No. 1004-0137 Expires October 31, 2014 5. Lease Serial No. NMLC-032096A		
	UREAU OF LAND MAN N FOR PERMIT TO	DRILL O	RECEIVE		6. If Indian, Allote	e or Tribe I	Name
la. Type of work: 🚺 DRILL		TECTION	·/ _		7 If Unit or CA Ag NM NM- 12004 8. Lease Name and	12X ; W	anne and No. <b>1. Blinebry</b> Dri <b>3.</b>
1b. Type of Well:       Oil Well         2. Name of Operator APACHE CO	Gas Well Other	₹) / Si	ngle Zone 📃 Multi	ple Zone	9. API Well No.		RD UNIT 195
3a. Address 303 VETERANS AIF MIDLAND, TX 7970		), (include area code) 167		10. Field and Pool, o EUNICE;BLI-TU-I	• •		
<ol> <li>Location of Well (Report location of At surface 1780' FNL &amp; 940</li> </ol>	-	ny State requiren	nents.*)		11. Sec., T. R. M. or UL: H SEC: 17		
At proposed prod. zone 1960' FN 14. Distance in miles and direction from APPROX 5 MILES NORTH OF	n nearest town or post office*			<u> </u>	12. County or Parish		13. State
<ol> <li>Distance from proposed* 765' location to nearest property or lease line, ft. (Also to nearest drig, unit line, if an</li> </ol>		16. No. of a 120 ACRI	acres in lease ES	· ·	ng Unit dedicated to this	well	\
<ul> <li>(Also to hearest drig, unit line, if an 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ul>	~300'	19. Proposed Depth 20. BLM/			/BIA Bond No. on file O-1463 NATIONWIDE / NMB000736		
1. Elevations (Show whether DF, KD GL: 3477'	B, RT, GL, etc.)	22. Approxi As So	mate date work will sta on As Appro	urt*	23. Estimated durati ~ 8 DAYS	on	
he following, completed in accordance	with the requirements of Oneha	24. Attac		ttachad to th	ic form:	· · · · ·	
<ul> <li>Well plat certified by a registered sur</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location SUPO must be filed with the appropriate surface surfac</li></ul>	veyor. is on National Forest System	Lands, the	<ol> <li>Bond to cover t Item 20 above).</li> <li>Operator certified</li> </ol>	he operation	ns unless covered by au ormation and/or plans a	_	
25. Signature Source	Letter		(Printed/Typed) NA L. FLORES			Date 3	121/16
SUPV OF DRILLING SERVIC	CES						
	ody Layton		(Printed/Typed)			Date APR	2 0 2016
FOR EIELDM	ANAGER				FIELD OFF		ulicant to
onduct operatio See att	ached NMOCD ons of Approval		0		TWO YEARS		
tle 18 U.S.C. S ates any false, :			rson knowingly and v ithin its jurisdiction.	villfully to m	ake to any departmented	or agency of	f the United
Continued on page 2) APPROVAL SUBJE GENERAL REQUIE SPECIAL STIPULA ATTACHED	REMENTS AND	4 041	SEP 12/16 COI	E ATT NDITI	*(Inst ACHED F( ONS OF A		on page 2) R <sup>r</sup>
		•					

Witness Surface Casing

444

Lea County Controlled Water Basin

#### PRIVATE SURFACE OWNER AGREEMENT

**HOBBS OCD** 

# OPERATOR: APACHE CORPORATION MAY 0 9 2016 WELL NAME: WEST BLINEBRY DRINKARD UNIT #66# RECEIVED SECTION: 17 TOWNSHIP: 21S RANGE: 37E LOCATION: SHL: 1780' FNL & 940' FEL COUNTY: LEA\_STATE: NMLC-032096A

#### STATEMENT OF SURFACE USE

The surface to the subject land is owned by	CHEVRON		
	PO BOX 285		
	HOUSTON, TX 77001		
	432-687-7104		

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:	JOHN VACEK	
SIGNATURE:	John Vorcek	
DATE:	115/16	
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 620 E. Green Street Carlsbad, NM 88220

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

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# HOBBS OCD

# APACHE CORPORATION (OGRID: 873) WEST BLINEBRY DRINKARD UNIT #66##

MAY 092016

RECEIVED

#### 1. Geologic Formations

TVD of target	6900'	Pilot hole depth	N/A
MD at TD:	6900'	Deepest expected fresh water:	65'

#### **Back Reef**

Formation	Depth (TVD)	Water/Mineral Bearing/ Target	Hazards*		
<u></u>	from KB	Zone?			
Quaternary Aeolian	Surface	Water			
Rustler	1258'	Water			
Top of Salt	1458'	Salt			
Tansil	2487'	Barren			
Yates	2617'	Oil, Gas, Water			
Seven Rivers	2882'	Oil, Gas, Water			
Queen	3421'	Oil, Gas, Water	Loss circ		
Grayburg	3698'	Oil, Gas, Water	Loss circ		
San Andres	4069'	Oil, Gas, Water	Loss circ		
Glorieta	5159'	Oil, Gas, Water			
Paddock	5252'	Oil			
Blinebry	5694'	Oil	Target Zone		
Tubb	6172'	Oil	Target Zone		
Drinkard	6486'	Oil	Target Zone		
ABO	6739'	Oil			
TD	6900'	Target-Zone.			

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

# 2. Casing Program See COA

Hole	le Casing Interval		Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF
Size	From	Το		(lbs)			Collapse	,	Tension		
11"	0	1300 1350	8-5/8"	24	J55	STC	3.41	1.95	1.8		
7-7/8"	0	69006856	5-1/2"	17	L80	LTC	1.74	1.93	1.8		
				BLM	Minimum Sa	fety 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?	
Is well located within Capitan Reef? If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well located within Capitan Reef? If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary.	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N N

# APACHE CORPORATION (OGRID: 873) WEST BLINEBRY DRINKARD UNIT #66W

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 <sup>nd</sup> 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?	
	- <b>P</b>
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

#### 3. Cementing Program

ement Det

Casing	# Sks	Wt. lb/ gal	Yld ft3/	H20 gal/sk	500# Comp.	Slurry Description
, ·		, , ,	sack		Strength	
				<u> </u>	(hours)	
Surf.	250	13.5	1.75	9.13	9	Lead: Cl C + 4% Bentonite + 1% CaCL2 + 0.25# CF
						(12hr: 677psi, 24hr: 1093psi)
	200	14.8	1.34	6.34	5	Tail: Cl C + 2% CaCL2 + 0.25# CF (12hr: 1121psi, 24hr:
						1795psi)
Prod.	600	12.6	1.95	10.65	9	Lead: Cl C 35/65 + 6% Bentonite + 0.1% R-20 + 0.25# CF
						+ 3% Salt (12hr-677psi, 24hr-1093psi)
				<u> </u>	DV/E	CP Tool : N/A
	300	14.2	1.28	5.81	5	Tail: Cl C 50:50 + 2% Bentonite + 0.4% Fl-12 + 0.1% R-
						20 + 0.25# CF + 3% Salt (12hr-1121psi, 24hr-1795psi)

\*\*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 ft3/ sack	H20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Prod 1 <sup>st</sup> Stage	200	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)
		L			DV/E0	CP Tool : 4300'
Prod 2 <sup>nd</sup> 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)

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

# APACHE CORPORATION (OGRID: 873) WEST BLINEBRY DRINKARD UNIT #66W

Include Pilot Hole Cementing specs: Pilot hole depth: N/A KOP: N/A

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

#### 4. Pressure Control Equipment

N/A | A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	•	Tested to:
	11" 3M	3M	Annular	X	50% of working pressure
			Blind Ram	x	
7-7/8"			Pipe Ram	X	3M
			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	<ul> <li>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.</li> <li>Provide description here</li> </ul>			
	See attached schematic.			

# APACHE CORPORATION (OGRID: 873) WEST BLINEBRY DRINKARD UNIT #66W

#### 5. Mud Program

D	epth	Туре	, Weight (ppg)	Viscosity	Water Loss
From	То				
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

Loggi	ng, 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	Surf. shoe to TD	
Х	Density	Surf. shoe to TD	
Х	CBL	Production casing	
	Mud log		
	PEX		



#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3036 psi
Abnormal Temperature	NO

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in<br/>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.XH2S is present

H2S 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

 $\underline{Y}$  Directional Plan  $\underline{N/A}$  Other





Approx 44.56' of new road

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