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		SECRETARY	('S POT	ASH ATS	5-15-4	94
rm 3160-3 Iarch 2012)	CD He	obbs		FORM OMB N Expires O	APPROVED o. 1004-0137 ctober 31, 2014	< H
UNITED S DEPARTMENT OF	TATES THE INTER	ION HOBBS O	CD	5. Lease Serial No. NMNM 114984		
APPLICATION FOR PERMI	T TO DRILL	OR REENTER 201	16	6. If Indian, Allotee	or Tribe Name	
. Type of work: 🖌 DRILL	REENTER	RECEIVI	ED	7. If Unit or CA Agree	ement, Name an	j No.
o. Type of Well: 🔽 Oil Well 🔲 Gas Well 🗌 Oth	ier .	Single Zone Multip	ole Zone	8. Lease Name and W Chili Parlor 17 Fede	Vell No. eral Com #3H	(3/33
Name of Operator BC Operating, Inc. (16087	25)			9. API Well No. 30-025-4	3138	
a. Address P.O. Box 50820 Midland, Texas 79710	10. Field and Pool, or E Red Tank; Bone Sp	Exploratory ring, East	(51681			
Location of Well (Report location clearly and in accordance	ON	11. Sec., T. R. M. or Bl	k.and Survey or	Area		
At surface 240 FSL & 2200 FEL of Onit Letter C At proposed prod. zone 240' FSL & 2200' FEL of Ur	nit Letter 'O', Se	-225, R-33E ection 17, T-22S, R-33E		Section 17, T-22S, R	R-33E	
Distance in miles and direction from nearest town or post o 25 miles West of Eunice	office*			12. County or Parish Lea	13. S NM	ate
Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	poposed* 240' line, ft. lrig, unit line, if any) 16. No. of acres in le 320			Spacing Unit dedicated to this well)		
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Pro 16,88	oposed Depth 9' MD / 11,850' TVD	20. BLM/I NM2572	1/BIA Bond No. on file 72		
Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Ap	proximate date work will star	23. Estimated duration	1		
209 GL	24. /	Attachments		45 days		
e following, completed in accordance with the requirements	of Onshore Oil and	Gas Order No.1, must be at	tached to the	s form:		
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest SUPO must be filed with the appropriate Forest Service Of	t System Lands, tl fice). 1	 Bond to cover tl Item 20 above). Operator certific Such other site BLM. 	he opération ation specific info	ns unless covered by an operation and/or plans as a	existing bond or may be required	n file (see by the
Signature	 የ	Name (Printed/Typed) Pam Stevens]	Date 03/05/2015	
e Regulatory Analyst			rout	2080	1	
proved by (Signature) /:://George MacDone	N N	Name (Printed/Typed)	19955	- lenc chance	Date MAR	2 4 2016
e FIELD MANAGER	C	Office CAR	LSBAD F	IELD OFFICE	<u></u>	
plication approval does not warrant or certify that the appli- iduct operations thereon. nditions of approval, if any, are attached.	cant holds legal or	r equitable title to those right	ts in the sub	ect lease which would en APPROVAL F(title the applicat	YEARS
le 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma tes any false, fictitious or fraudulent statements or represent	the it a crime for a ations as to any ma	any person knowingly and watter within its jurisdiction.	villfully to m	ake to any department or	agency of the	United
Continued on page 2)		Ka		*(lnstr	uctions on p	age 2)
Carlsbad Controlled Water Basin		03/28/16				

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Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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4.

HOBBS OCD

BC Operating, Inc., Chili Parlor 17 Federal Com #3H

MAR 2 8 2016

1. Geologic Formations

RECEIVED

TVD of target	11850	Pilot hole depth	12150
MD at TD:	16889	Deepest expected fresh water:	490

Basin

1200

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Formation "	Depth (TVD)	Water/Mineral Bearing/	Hazards*
	from KB	Target Zone?	
Quaternary Fill	Surface	Water	
Rustler	970	Water	
Top of Salt	1120	Salt	
Lamar	4850	Barren	
Delaware Group	4950	Oil/Gas	
Bone Spring	8700	Oil/Gas	
2 nd Bone Spring Lime	10075	Target Zone	
3 rd Bone Spring Sand	11750	Target Zone	
Wolfcamp	11950		

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

2.	2. Casing Program See COA								
Holê Size	Casing From	<u>Interval</u> To	Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
16"	0	1070	13.375"	54.5	J55	STC	2.28	1.08	8.81
12.25"	0	4875 4800	9.625"	40	J55	LTC	1.76	1.32	2.67
8.75"	0	16889	5.5"	17	P110	Semi- Buttr.	1.4	1.9	2.82
	•	•,,,		BLM Min	imum Safet	y 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. See attached semi-premium connection Specs.

	YorN				
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.					
Does the above casing design meet or exceed BLM's minimum standards? If not provide					
justification (loading assumptions, casing design criteria).					
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching					
the collapse pressure rating of the casing?					
	21 読みを読みたい。21				
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				

See

BC Operating, Inc., Chili Parlor 17 Federal Com #3H

	· 这些的问题,在这些问题。
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	Y
500' into previous casing?	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	San and a star and the star
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?	
	TAS A FALLEN
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?	
通过""""。这是是"一个学校的学校",就要找这个要的就是是你这些是你的这些心态。这些是是我们的想要是这些我们就能够没有我们的,我们也能让我们的是不可能找到了。	不知道和理论和研究
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	#'Sks	Wt. _1b/ 	Yld ft3/ sack	H ₂ 0, gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	410	13.5	1.757	9.0 9	10	Lead: ExtendaCem + 2 lbm Kol-Seal + 0.125 lbm Poly-E-Flake
	240	14.8	1.345	6.2 3	8	Tail: HalCem + 2 lbm Kol-Seal + 0.125 lbm Poly-E- Flake + 1% Calcium Chloride - flake
Inter.	1490	12.6	1.934	10. 36	15	Lead: EconoCem + 0.25 lbm Poly-E-Flake + 0.60% Halad®-9 + 3 lbm Kol-Seal
	230	14.8	1.339	6.1 3	11	Tail: HalCem + 3 lbm Kol-Seal + 0.25 lbm Poly-E- Flake
Prod.	1410	11.9	2.303	13.	24	Lead: VersaCem + 10% Bentonite + 2 lbm Kol-Seal +
				19		0.25 lbm D-Air 5000 + 0.50% HR-601
	900	15	2.625	11.	10	Tail: SoluCem + 0.25 lbm D-Air 5000 + 0.80% HR-
				40		601 (Acid Soluble Cement)

See Optional DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Optional 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.

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

Include Pilot Hole Cementing specs:

Pilot hole depth 12150 KOP <u>11280</u>

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See COA

Plug- top	Plug Bottom	% Excess	No. Sacks	Wt: lb/gal	Yld ft3/sack.	Water gal/sk	Slurry Description and Cement Type
11270	11800	10	230	16.4	1.06	4.3	Class H
11930	12150	10	100	16.4	1.06	4.3	Class H

4. Pressure Control Equipment See COA

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		ype	ý	Tested/to:
			Ar	nular	x	50% of working pressure
			Blir	ld Ram		
12-1/4"	13-5/8"	2M	Pip	e Ram		214
			Doul	ole Ram		2101
			Other*			
			Ar	inular	x	50% testing pressure
\$ ³ /4"			Blin	d Ram	x	
81/24	11"	***	Pip	e Ram	x	
P	11	5m	Doul	ole Ram		3XA 5M
Program		See COT	Other *			See COA
0			An	nular		
			Blind Ram			
			Pipe Ram			
			Double Ram			
			Other *			

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and 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 and 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 and floor safety valve (inside BOP) and 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 and Gas Order #2 III.B.1.i.

A variance is requested for the use of a flexible choke line from the BOP to Choke Y Manifold. See attached for specs and hydrostatic test chart____

Y Are anchors required by manufacturer?

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.

• Provide description here

See attached schematic.

5. Mud Program

De From	pth To	Туре	Weight (ppg)	Viscosity	Water Loss
0	Surf. shoe	FW Gel	8.4-8.8	28-34	N/C
Surf csg	Int shoe	Saturated Brine	9.8-10.0	28-34	N/C
Int shoe	TD	Cut Brine	8.4-9.1	30-36	<12

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

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

6. Logging and Testing Procedures

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See COA

Logg	ing, Coring and Testing.
Y	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.
Ν	Drill stem test? If yes, explain
Ν	Coring? If yes, explain

Addi	tional logs planned	Interval
Y	Resistivity	Int. shoe to KOP
Y	Density	Int. shoe to KOP
N	CBL	Production casing
Y	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

e	Condition	Specify what type and where?
A	BH Pressure at deepest TVD	3800 psi
	Abnormal Temperature	Yes/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 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.

Y	H2S is present	
Y	H2S Plan attached	

8. Other facets of operation

Is this a walking operation? No. If yes, describe. Will be pre-setting casing? No. If yes, describe.

Attachments

- _X_ Directional Plan
- X Other, describe
- Improved 5.5" casing thread design example
- 20" annular
- 13-5/8" annular
- 11" BOPE
- Flexible hose specs and test chart