1625 N. French Dr., Hobbs, NM 88240			State of New Mexico gy, Minerals and Natural Resources				Revised A	orm C-103 August 1, 2011		
811 S. First S	St., Artesia,	NM 88210		OIL CONSERVATION DIVISION					25-42486 dicate Type of Lease	
District III – 1000 Rio Bra	azos Rd., A	ztec, NM 87	410		1220 South Santa Fe				STATE FEE	
<u>District IV</u> – 1220 S. St. F 87505			А		Sailla F	5, INIVI 6	7303	6. Sta	ate Oil & Gas Lease No.	
DIFFERENT	SE THIS FO RESERVO	ORM FOR P	ROPOSALS	TO DRI		PEN OR PLI	HOBBS OCD UG BACK TO A DR SUCH		ease Name or Unit Agreen TLE UNIT	nent Name
PROPOSAL:		oil Well	⊠ Gas	Well [Other	A	MAY 27 2015		ell Number 72H	
2. Name o	of Operate	or						9. 00	GRID Number	
Devon End 3. Addres			mpany, L.	P			RECEIVED	10 P	6137 Pool name or Wildcat	
			lahoma Ci	ty, Okla	homa 73102	2-5010	(405) 552-7848		LE X; BONE SPRING	
4. Well L	ocation							1		
1	nit Letter	o	:33		feet from the		line and _		feet from theE_	line
S	ection :	27	1.1				Range 33E		Lea County New Mexi	CO
				. Elevat 67'	ion (Show wh	iether DR,	RKB, RT, GR, e	tc.)		VI a
	:	12. Ch	55 VI 55 C 11-55 D		e Box to In	dicate N	ature of Notic	e, Repor	t or Other Data	
	NO	TICE O	FINTE	OITU	N TO:		l St.	IBSFOL	JENT REPORT OF	•
PERFORM			K□ PL	.UG AN	D ABANDON	_	REMEDIAL WO	DRK	☐ ALTERING (
TEMPORA					PLANS					
PULL OR A			∐ MU	JLHPL	E COMPL		CASING/CEME	INT JOB		
			_							_
OTHER:	scribe pro	posed or	completed	onerati	one (Clearly	/ state all r	OTHER:	and give n	pertinent dates, including	estimated date
									ns: Attach wellbore diagr	
pro	posed co	mpletion	or recomp	letion.						
Devon requ	est to add	a DV too	l the 13 3/	8" surfa	ice casing and	d pump tw	o stage job with	volumes b	pelow.	
- Casing	#Sks	Wt.	H ₂ 0.	1	500#		Slur	ry Descri	ption.	
		⇒lb/=	gal/sk	The state of the s	Comp.			A Section 1	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
	7.10	gal		sack	Strength					
42.2/0"	Balancia e repend				(hours)	Loody	65-35) Glass 6 (Composts I	Foz (Fly Ash): 6%	
13-3/8" Surface	850	12.9	9.81	1.85	14	1 '	•		Sodium Chloride +	
1 st Stage	050	12.7),01	1.05	*	I .	bs/sack Poly-E-		Source Contract	
	330	14.8	6.32	1.33	6				s/sack Poly-E-Flake	
						DV tool 3	361			
13-3/8"						Lead: (65:35) Class C	Cement: l	Poz (Fly Ash): 6%	
Surface	260	12.9	9.81	1.85	14				Sodium Chloride +	
2 nd Stage						0.125	bs/sack Poly-E-	Flake		
	L			<u> </u>					1' C	
I hereby cer	tify that t	he inform	ation abov	e is true	e and complet	te to the be	est of my knowle	edge and b	ellet.	
SIGNATUR	E V		-	· · · · · <u>-</u> -	TITI	LE_Regula	atory Specialist_		DATE5/26/2015_	
Type or prin		avid H. C	Cook		E-ma	il address:	_david.cook@d	lvn.com <u></u>		
APPROVEI Conditions	O BY:	val (if any	hua		TITL	EFe	troleum Engi	neer	DATE 051	27/15
Conditions (or whhio,	van (meaniy	'							

1. Geologic Formations

TVD of target	11,325'	Pilot hole depth	N/A
MD at TD:	15,698'	Deepest expected fresh water:	

Basin

Formation ,	Depth (TVD)		Hazards ²
	from KB	Farget Zone?	
Rustler	1,380	Barren	
Top of Salt	1,652	Barren	
Base of Salt	5,030	Barren	
Delaware	5,290	Oil	
Cherry Canyon	6,265	Oil	
Brushy Canyon	7,575	Oil	
Lower Brushy	9,003	Oil	
1 st Bone Spring Lime	9,175	Oil	
2 nd Bone Spring Lime	10,530	Oil	
3 rd Bone Spring Lime	11,500	Oil	

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

2. Casing Program

Hole Size	The second secon	CANAL CANAL CAN				Conn	CONTRACTOR OF THE PARTY OF THE	SF Burst	
	From	Tö	Size	(lbs)			Collapse	1.0	Tension
17.5"	0	1,405'	13.375"	48	H-40	STC	1.15	2.57	8.02
12.25"	0	5,250'	9.625"	40	HCK-55	BTC	1.14	1.06	4.41
8.75"	0	15,698'	5.5"	17	P-110	BTC	1.52	1.94	2.95
				BLM Min	imum Safet	y Factor	1.125	1.00	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

	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.	N			
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?	Y			
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.				
	N			
Is well located in SOPA but not in R-111-P?				
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?				
	NI			
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	H₂0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface 1 st Stage	850	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	330	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
					D۷	Tool 361
13-3/8" Surface 2 nd Stage	260	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Be lbs/sack Poly-E-Flake
9-5/8" Inter.	1100	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	510	11.9	12.89	2.31	n/a	1st Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
5-1/2" Prod.	330	12.5	10.86	1.96	30	2 nd Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1310	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

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.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing	5050′	25%

4. Pressure Control Equipment

N 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	Ţ	ype		Tested to:
			An	nular	X	50% of working pressure
			Blin	d Ram		
12-1/4"	13-5/8"	3M	Pipe	e Ram		3M
			Doub	ole Ram	X	3141
			Other*			
	13-5/8"	3M	Annular		X	50% testing pressure
			Blind Ram			
8-3/4"			Pipe Ram			
0 3/4			Doub	ole Ram	X	3M
			Other *			
			Annular			50% testing pressure
			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.

Y 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?
- Y 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.

Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- Wellhead will be installed by FMC's representatives.
- If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- FMC representative will install the test plug for the initial BOP test.
- FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In

addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns

See attached schematic.

5. Mud Program

	Depth	Туре	Weight (ppg)	Viscosity	. Water Loss
From	Tō				
0	1,405'	FW Gel	8.6-8.8	28-34	N/C
1,405'	4,230'	Saturated Brine	10.0-10.2	28-34	N/C
4,230'	15,698'	Cut Brine	8.5-9.3	28-34	N/C

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

Logg	ging, Coring and Testing,
х	Will run GR/CNL fromTD 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

Add	litional logs planne	d Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	2985 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 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.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? No. Will be pre-setting casing? No.

Attachments

x Directional Plan

Other, describe