NOV 04 2014

1. Geologic Formations

RECEIVED

TVD of target	10,668'	Pilot hole depth	N/A
MD at TD:	15,213'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/ Target Zone?	Hazards*
	from KB	Target Zone?	
Rustler	743	Barren	
Top of Salt	1,043	Barren	
Base of Salt	4,383	Barren	
Bell Canyon	4,648	Barren	
Cherry Canyon	5,563	Oil	
Brushy Canyon	6,918	Oil	
1 st Bone Spring Lime	8,563	Oil	
1 st Bone Spring Sand	9,613	Oil	
2 nd Bone Spring Lime	9,843	Oil	
2 nd Bone Spring Sand	10,193	Oil	,
			0.00.00

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

2. Casing Program

Casing	Interval	Csg.	Weight	Grade	Conn	SF	SF	SF
From	To	Size	(lbs)		•	Collapse	Burst	Tension
0	825'	13.375"	48	H-40	STC	1.99	4.48	13.66
0	3,400'	9.625"	36	J-55	LTC	1.15	1.66	1.97
3,400'	4,500'	9.625"	40	J-55	LTC	1.22	1.69	2.89
0	15,213'	5.5"	17	P-110	BTC	1.53	2.18	3.08
			BLM Min	l imum Safet	y Factor	1.125	1.00	1.6 Dry 1.8 Wet
	From 0 0 0 3,400'	From To 0 825' 0 3,400' 3,400' 4,500'	From To Size 0 825' 13.375" 0 3,400' 9.625" 3,400' 4,500' 9.625" 0 15,213' 5.5"	From To Size (lbs) 0 825' 13.375" 48 0 3,400' 9.625" 36 3,400' 4,500' 9.625" 40 0 15,213' 5.5" 17	From To Size (lbs) 0 825' 13.375" 48 H-40 0 3,400' 9.625" 36 J-55 3,400' 4,500' 9.625" 40 J-55 0 15,213' 5.5" 17 P-110	From To Size (lbs) . 0 825' 13.375" 48 H-40 STC 0 3,400' 9.625" 36 J-55 LTC 3,400' 4,500' 9.625" 40 J-55 LTC 0 15,213' 5.5" 17 P-110 BTC	From To Size (lbs) . Collapse 0 825' 13.375" 48 H-40 STC 1.99 0 3,400' 9.625" 36 J-55 LTC 1.15 3,400' 4,500' 9.625" 40 J-55 LTC 1.22 0 15,213' 5.5" 17 P-110 BTC 1.53	From To Size (lbs) . Collapse Burst 0 825' 13.375" 48 H-40 STC 1.99 4.48 0 3,400' 9.625" 36 J-55 LTC 1.15 1.66 3,400' 4,500' 9.625" 40 J-55 LTC 1.22 1.69 0 15,213' 5.5" 17 P-110 BTC 1.53 2.18

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						
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	Y					
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.						
Is well located in SOPA but not in R-111-P?	N					
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?	Ń					
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?						
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	H ₂ 0 gal/sk	Par will be a second	500# Comp. Strength (hours)	Slurry Description
Surf.	900	14.8	6.32	1.33	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Inter.	960	12.9	9.81	1.85	17	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	740	11	14.81	2.55	22	Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
Prod.	1360	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
Surface	0'	100%
Intermediate	0'	75%
Production	4300'	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	Туре		√	Tested to:
				nular	X	50% of working pressure
			Bline	l Ram		
12-1/4"	13-5/8"	3M	Pipe	Ram		3M
			Doub	le Ram	x	3101
			Other*			
		-	Anı	nular	X	50% testing pressure
	13-5/8"	3M	Blind Ram			
8-3/4"			Pipe Ram			
0-5/4			Double Ram		X	3M
			Other *			
			Anı	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.

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 3000 (3M) 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 3,000 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		Type	Weight (ppg)	Viscosity	Water Loss	
From	To					
0	825'	FW Gel	8.6-8.8	28-34	N/C	
825'	4,500'	Saturated Brine	10.0-10.2	28-34	N/C	
4,500'	15,213'	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.
X	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 planned	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	4801 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.

various and formations will be provided to the BEIVI.				
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

Devon

Northing

425146.72

MD

0.00

Name

10063.52

Inc

0.00

0.00 10663.52 60.00 327.2110559.72

11077.63 90.00 357.2110668.00

Project: Lea County, NM (NAD 83)

Site: Sec 32 T. 24 S., R.32E. Well: Chincoteague 32 ST Com 3H

Wellbore: Wellbore #1

Plan: Plan#1 102814 RevA0 (Chincoteague 32 ST Com 3H/Wellbore #1)

HP212

HALLIBURTON Sparry Orilling

West(-)/East(+) (1000 ft/in)

Chincoteague 32 ST Com 3H/Plan#1 102814 RevA0

Chincoteague 32 ST Com 3H B Chincoteague 32 ST Com 4H/Plan#1 102814 Re



49.11 638.08 Chincoteague 32 ST Com 3H BHL

0.00 4769.15 Chincoteague 32 ST Com 3H BHL 15213.81 90.00 357.2110668.00 4746.09 -468.45 0.00

TFace

0.00

0.00

VSect Target

0.00

0.00

Longitude

103° 41' 48.080 W

WELLBORE TARGET DETAILS

614.81 -267.25 10.00

+E/-W

0.00

0.00

WELL DETAILS: Chincoteague 32 ST Com 3H

+N/-S

0.00

0.00

240.83

3471.20

Latittude

32° 10' 1.937 N

Ground Level:

TVD

0.00

Easting

0.0010063.52

738332.47

Azi

0.00

TVD +N/-S +E/-W Shape Chincoteague 32 ST Com 3H BHL 10668.00 4746.09 -468.45 Point

SECTION DETAILS

Dleg

0.00

0.00

-155.15 10.00 327.21 254.91



