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Submit 1 Copy To Appropriate District	State of New Mexico	Form C-103	
Office District I – (575) 393-6161	Energy, Minerals and Natural Resources	Revised August 1, 2011	
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.	
District II - (575) 748-1283	OIL CONSERVATION DIVISION	30-015-41364	
<u>District III</u> – (505) 334-6178	1220 South St. Francis Dr	5. Indicate Type of Lease	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe NM 87505		
<u>District IV</u> $= (505) 476-3460$ 1220 S. St. Francis Dr., Santa Fe, NM	Sunta 1 0, 1414 07505	6. State OII & Gas Lease No.	
87505			
SUNDRY NOTI	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name	
DIFFERENT RESERVOIR USE "APPLIC	ALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	Cotton Draw Unit	
PROPOSALS.)		9 W/ II March and	
1. Type of Well: Oil Well 🛛	Gas Well 🗌 Other	8. Well Number	
2 Name of Operator		9 OGRID Number	
Devon E	nergy Production Company, L.P.	6137	
3. Address of Operator		10. Pool name or Wildcat	
333 Wes	t Sheridan		
Oklahom	a City, OK 73102-5015 405-228-7203	Paduca; Bone Spring (O)	
4. Well Location			
Unit Letter P : 200	feet from the South line and 1060	feet from the East line	
Section 2	Township 25S Range 31E	NMPM Eddy County	
	11. Elevation (Show whether DR, RKB, RT, GR. etc	c.)	
	3452		
12. Check A	ppropriate Box to Indicate Nature of Notice	e. Report or Other Data	
	· · · · · · · · · · · · · · · · · · ·		
NOTICE OF IN	TENTION TO: SUI	BSEQUENT REPORT OF:	
	PLUG AND ABANDON		
		NI JOB	
OTHER: Chg Csg	OTHER:		
13. Describe proposed or compl	eted operations. (Clearly state all pertinent details, a	nd give pertinent dates, including estimated date	
of starting any proposed wo	rk). SEE RULE 19.15.7.14 NMAC. For Multiple C	ompletions: Attach wellbore diagram of	
proposed completion or reco	ompletion.		
Devon Energy respectfully	requests to change the casing design on the Cotton D	raw Unit 220H. The approved APD calls for 5-	
1/2" 17# HCP-110 LTC pro	duction casing from surface down to a depth of 9.50	Off where we could then crossover to $5-1/2$ " 17#	
HCP-110 BTC casing and r	un to TD at 14,961ft. Devon requests to change this c	design to 5-1/2" 17# P-110 DWC/C casing that	
will run from surface all the	way to TD at 14,961ft. Attached you will find the ne	ew casing design along with the new design	
factors. You will also find a	spec sheet for this new casing attached.		
Thank vou	~		
	1	RECEIVED	
	1		
		JUL 12 2013	
	IN IN	IMOCD ARTESIA	
I nereby certify that the information a	bove is true and complete to the best of my knowled	lge and beliet.	
1. (
SIGNATURE:	TITLE: Regulator	ty Associate DATE: 7/11/2013	
Anne			
Type or print name Trina C.	Couch E-mail address: <u>trina.couch@</u>	<u>dvn.com</u> PHONE:405-228-7203	
For State Use Only			
ADDROVED DV / ////	10 Der P.S.M.	VGS DATE I LALL DAVE	
Conditions of Approval (if any):	ince on a you	$\frac{10000}{1000000000000000000000000000000$	
Conditions of Approval (If ally).		\sim	

Conditions of Approval (if any):

Cotton Draw 220H – Sundry_APD DRILLING PLAN RJC 7-10-13

Casing Program

Hole Size	<u>Hole</u> Interval	OD Csg	<u>Casing</u> <u>Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
17-1/2"	0 - 875	13-3/8"	0-875	48#	STC	H-40
12-1/4"	875 - 4,200	9-5/8"	0-4,200	40#	BTC	HCK-55
8-3/4"	0 - 14,961	5-1/2"	0-14,961	17#	DWC/C	P-110RY

Note: only new casing will be utilized

MAXIMUM LATERAL TVD 10,368'

Design Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13-3/8", 48#, H-40, ST&C	1.69	3.81	7.67
9-5/8", 54.5#, HCK-55 BTC	1.94	1.81	5.51
5-1/2" 17# P-110RY DWC/C	1.54	2.2	2.15

Mud Program:

<u>Depth</u>	Mud Wt.	Visc.	Fluid Loss	Type System
0-875	8.4 - 9.0	30-34	N/C	FW
875 - 4,200	9.8 - 10.0	28 - 32	N/C	Brine
4,200 - 14,961	8.6 - 9.0	28 - 32	N/C-12	FW

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2, a 3M system will be installed and tested prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 a 3M system will be installed prior to drilling out the intermediate casing shoe.

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 lineThe line will be kept as straight as possible with minimal turns.

Cementing Program (cement volumes based on 100 % excess Surface, 50% excess Intermediate and at least 25% excess Production)

13-3/8" Surface	875 ft	Lead: 300 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water, 13.5 ppg
		Yield: 1.75 cf/sk
		TOC @ surface
		500 ft Tail: 515 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg
		Yield: 1.35 cf/sk
9-5/8" Intermedia	ate 4200 ft	Lead: 900 sacks (65:35) Class C Cement:Poz (Fly Ash): + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg
		Yield: 1.85 cf/sk
		TOC @ surface
		Tail:360 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg
		Yield: 1.33 cf/sk
5-1/2" Productio	n 14,961 f	t. 3000 1 st Lead: 380 sacks (50:50) Class H Cement:Poz (Fly Ash) + 10% bwoc Bentonite + 8 lb/sk Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 0.3% bwoc HR-601 + 0.3% bwoc Econolite + 77.2% Fresh Water, 11.8 ppg
		Yield: 2.52 cf/sk
		2500 2nd Lead: 375sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.125 lbs/sack Poly-E-Flake + 0.1% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg
		Yield: 1.95 cf/sk
		5700 ft. Tail : 1475 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg
		Yield: 1.22 cf/sk
TOC for All Stri	nos	
Surfa	ce:	0
Interr	nediate:	0
Produ	iction:	3700 ft
ACTUAL CEM	ENT VOLUM	IES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

	Technical	Specifications	
Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing standard	5-1/2 in	17.00 lb/ft (0.304 in)	P110RY
Mate	rial	c	$\overline{\gamma}$
P110R)	/ Grade		\ ~~ M Z
110.000	Minimum Yield Strend	ith (psi)	
125,000	Minimum Ultimate Str	ength (psi) VAM	-USA
	Pine Dimensions	4424 Hous	ton, TX 77041
5 500	Nominal Pine Body O	D (in) Phor	e: 713-479-3200
4 802	Nominal Pipe Body U	C (iii) Fax:	713-479-3234 sil: VAMUSAsales@na vallourec.co
4.092			
0.304		(III)	3
17.00	Nominal Weight (Ibs/t	y .	
16.89	Plain End Weight (lbs	/π)	
4.962	Nominal Pipe Body A	rea (sq in)	Ď
	Pipe Body Performa	nce Properties	B
546.000	Minimum Pipe Body	(ield Strength (lbs)	2
7 480	Minimum Collapse Pr	essure (psi)	5.1
10 640	Minimum Internal Yie	d Pressure (nsi)	j - Z - 1
9 700	Hydrostatic Test Pres	sure (nsi)	and the second sec
3,700	Trydrostatic reat rea		
	Connection Dimens	ione ,	
6.050			
4 802	Connection LD (in)		15
4.092	Connection Drift Dian	eter (in)	12-1
4.707	Connection Drift Dian		
4.13	Make-up Loss (In)	· · · ·	<u> </u>
4.962	Critical Area (sq in)		
100.0	Joint Efficiency (%)		3
	Connection Perform	ance Properties	1.2.2
546.000	Joint Strength (lbs)	· · · · • • · · · · · · · · · · · · · ·	5
22 940	Reference String Len	ath (ft) 1.4 Design Factor	· } } .
568,000	API Joint Strength (Ih	s)	5.
546.000	Compression Rating	-, (lbs)	5
7 / 20		e Rating (nsi)	
10 640	API Internal Pressure	Resistance (nei)	151
0,040	Maximum Uniavial Da	nd Pating (degroes/100 f	
91.7			B.
	Appoximated Field I	End Torque Values	· · · · · · · · · · · · · · · · · · ·
12,000	Minimum Final Torqu	e (ft-lbs)	
13,800	Maximum Final Torou	ie (ft-lbs)	
15,500	Connection Yield Tor	guè (ft-lbs)	

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.



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