 Type of Well Gas Well Other Name of Operator DEVON ENERGY PRODUCTIO Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102 Location of Well (<i>Footage, Sec., T.,</i> Sec 21 T26S R34E SESE 65FS 32.021870 N Lat, 103.468410 V CHECK APPRO TYPE OF SUBMISSION Notice of Intent Subsequent Report Final Abandonment Notice Describe Proposed or Completed Opera If the proposal is to deepen directionally Attach the Bond under which the work 	Contact: [ON CO EFMail: david.cook@ <i>R., M., or Survey Description</i>) SL 660FEL W Lon OPRIATE BOX(ES) TO Alter Casing Casing Repair Change Plans Convert to Injection ation (clearly state all pertinent y or recomplete horizontally. give	DAVID H COOK advn.com 3b. Phone No. (in Ph: 405-552-7 INDICATE NA Deepen Fracture New Co Plug and Plug Bac details, including es	ATURE OF No TYPE OF Treat onstruction d Abandon	OTICE, REP ACTION Production Reclamati Recomple Temporari	n (Start/Resume) ion ite	1H D-X1 ixploratory nd State IM	
 Coil Well Gas Well Other Name of Operator DEVON ENERGY PRODUCTION Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102 Location of Well (Footage, Sec., T., Sec 21 T26S R34E SESE 65FS 32.021870 N Lat, 103.468410 V 12. CHECK APPRO TYPE OF SUBMISSION Notice of Intent Subsequent Report Final Abandonment Notice Describe Proposed or Completed Opera If the proposal is to deepen directionally Attach the Bond under which the work 	Contact: [ON CO EFMail: david.cook@ <i>R., M., or Survey Description</i>) SL 660FEL W Lon OPRIATE BOX(ES) TO Alter Casing Casing Repair Change Plans Convert to Injection ation (clearly state all pertinent y or recomplete horizontally. give	 Ødvn.com 3b. Phone No. (im Ph: 405-552-7 INDICATE NA Deepen Fracture New Co Plug and Plug Bad details, including education 	ATURE OF No TYPE OF Treat onstruction d Abandon	OTICE, REP ACTION Production Reclamati Recomple Temporari	COBBER 21 FED 9. API Well No. 30-025-42311-00 10. Field and Pool, or E BRADLEY 11. County or Parish, an LEA COUNTY, N PORT, OR OTHER n (Start/Resume) ion ite	D-X1 ixploratory Ind State IM DATA DATA Water Shut-Off Well Integrity Other Change to Original A	
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If the proposal is to deepen directionally Attach the Bond under which the work	v or recomplete horizontally, gi	details, including e		Temporarily Abandon		Change to Original A	
Devon Energy Production Co., L plan for the subject well. Proposed pilot hole will be appro Please see the attached revised	will be performed or provide the perations. If the operation resund onment Notices shall be filed al inspection.) L.P. respectfully requests oximately 10,800' TVD.	he Bond No. on file its in a multiple cor I only after all requi to add a pilot h	with BLM/BIA. mpletion or recom irements, includin ole to the appr	Required subse npletion in a new og reclamation, h roved drill	equent reports shall be fi w interval, a Form 3160-	led within 30 days 4 shall be filed once d the operator has	
	Electronic Submission #29 For DEVON ENERG tted to AFMSS for process	Y PRODUCTION	CO LP, sent to R MASON on 0	o the Hobbs	JAM0086SE)	λk_{2}	
Signature (Electronic Sub		Date		<u> </u>	PPROVEL	4	
	THIS SPACE FOR	R FEDERAL O			MAD / A 2015		
Approved By Conditions of approval, if any, are attached. A certify that the applicant holds legal or equital which would entitle the applicant to conduct of Fitle 18 U.S.C. Section 1001 and Title 43 U.S.	Approval of this notice does no ble title to those rights in the su operations thereon. S.C. Section 1212, make it a cri	t warrant or ubject lease Off	tle fice knowingly and wi	BUKEAU	COLLAND CANAGE RLSFAD LUZD OFFIC		
States any false, fictitious or fraudulent state	ED ** BLM REVISED *	•		₩ REVISED **		1 0 2015 V	

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DRILLING PROGRAM

Devon Energy Production Company, L.P. Cobber 21 Fed 1H

1. Geologic Name of Surface Formation: Quaternary Alluvium

2. Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:

a.	Fresh Water	200'			
b.	Rustler	960'	Barren		
C.	Top of Salt	1100'	Barren		
đ.	Castile	3460'	Barren		
e.	Base of Salt	5042'	Barren		
f.	Delaware	5296'	Oil / Gas		
g.	Bell Canyon	5332'	Oil / Gas		
h.	Cherry Canyon	6340′	Oil / Gas		
i.	Brushy Canyon	7945'	Oil / Gas		
j.	Bone Spring	9546'	Oil / Gas		
k.	Upper Leonard Shale	9561'	Oil / Gas		
ļ.	Upper Leonard Shale Base	9861'	Oil / Gas		
m.	1 st Bone Spring Sand	10586′	Oil / Gas		
	Total Depths	9,800' TVD 1438	5' MD Pilot Hole: 10,800' TVD		

3. Pressure Control Equipment:

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

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); **if an H&P rig drills this well. Otherwise no flex line is needed**. The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 1000′	13-3/8"	0 - 1000'	48	STC	H-40	1.72	3.87	11.27
12-1/4"	1000-5300'	9-5/8"	0-5300, 539	0′ ₄₀	втс	HCK-55	1.53	1.43	4.37
0.044	5340	7"	0-9000′	29	BTC	P-110	2.57	1.27	2.76
8-3/4"	5300-14386'	5-1/2"	9000'-14386'	17	BTC	P-110	1.78	2.20	3.31

Casing Notes:

• All casing is new and API approved

Maximum Lateral TVD: 9800'

5. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-1000′	8.4-8.6	30-34	N/C	FW
1000-5300'	10	28-32	/N/C	Brine
5300-14386'	8.6-9.2	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Cementing Table:

	String	Number of sx	Weight Ibs/gai	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
	13-3/8"	410	13.5	9.08	1.72	Lead	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water
Sur	rface Casing	560	14.8	6.34	1.33	Tail	Class C Cement + 63.5% Fresh Water
	9-5/8"	1190	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake + 70.9 % Fresh Water
	termediate Casing	430	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
,	5-1/2"	570	11	14.94	2.66	Lead	Tuned Light [®] Cement + 0.125 lb/sk Pol-E-Flake + 76.5% Fresh Water
Λ	roduction sing Tuned	1360	14.5	5.31	1.20	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

Pilot Hole Plug Back

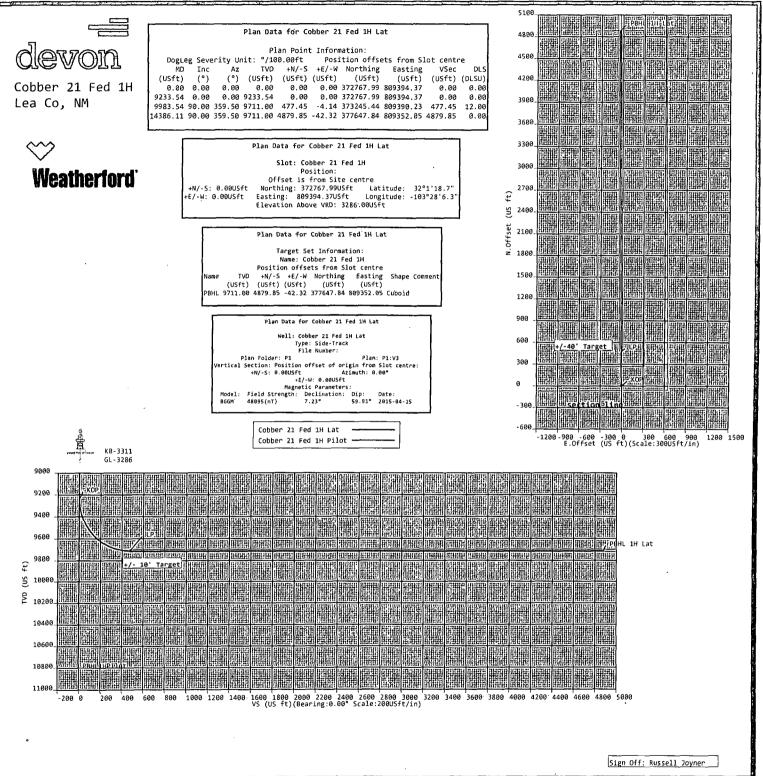
Plug	Plug	% Excess	No. Sacks	Wt. lb/gal	ft3/sack	Water gal/sk	Slurry Description and Cement Type
9033	10800	10	685	15.6	1.19	5.42	Class H + 0.5% BWOC HR-601 + 0.2% Halad-9

TOC for all Strings:

Surface	@	0′
Intermediate	@	0′
Production	@	4800′

Notes:

- Cement volumes Surface 100%, Intermediate 50%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and/or caliper log data



ACCOMMENDATION OF THE PLANE AND

5D Plan Report

5D Plan Report

1

Devon EnergyField Name:Lea Co, NM Nad 83 NMEZSite Name:Cobber 21 Fed 1HWell Name:Cobber 21 Fed 1H LatPlan:P1:V3

25 February 2015

12



Weatherford International Limited

5D 7.5.9 : 25 February 2015, 16:13:16 UTC

					•					
		Cobber 21	Fed 1H Lat		р					
	Map Units : US ft		Company Name	: Devon Energ	у					
	Vertical Reference	:e Datum (VRD) : Mean	Sea Level							
Gield Names .	Projected Coordi	nate System : NAD83 / N	Vew Mexico East (ftUS)							
Lea Co, NM Nad	Comment :	•								
COET WITH LEASE	1									
1.4.1.1.1.1	Units : US ft	North Reference :		ce Angle : 0.46						
	Position	Northing : 372767.	99 US ft Latitude :	32° 1' 18.73"						
Site Name	Position	Easting : 809394.3	⁷ US ft Longitude	: -103° 28' 6.27	"					
Cobberv21 Fed	Elevation above Mean Sea Level:3286.00 US ft									
OGS	Comment :									
	hurrist, N. G.	Position (Offe	ets relative to Site Centr	e)						
	+N / -S : 0.00 US ft Northing : 372767.99. US ft Latitude : 32°1'18.73"									
Slot Name	+E / -W : 0.00 US	ft Easting :809394.37	US ft Longitude	: -103°28'6.27"						
Cobber 21 Fed	1	ce : Ground Elevation								
2P 1H	Elevation above Mean Sea Level : 3286.00 US ft									
Section of the sector of the	Comment :									
	Type : Sidetrack		UWI:	Plan:P1:V3						
	Parent : Cobber 2	1 Fed 1H Pilot	Tie Point Method : MD	Tie Point :92	33.54 US ft					
Well Name		Bushing : 25.00 US ft Sea Level: 3311.00 US	Comment :	-						
Cobber 21 Fed	ft	Sea Level: 5511.00 05								
1H Lat	Closure Distance	: 4880.03 US ft	Closure Azimuth : 359.503°							
	Vertical Section (Position of Origin Relat	ive to Slot)							
		+N / -S: 0.00 US ft	+E/-W: 0.00 US ft	Az : 359.50°						
	Magnetic Parame	ters								
	Model : BGGM	Field Strength : 48095.7nT	Dec : 7.23°	Dip: 59.91°	Date :					
· MR Martin Company of the		101.56004			15/Apr/2015					

Tencerset

Name: Cobber 21 Fed 1H Number of Targets: 1

Comment :

PBHL	+E/-W :	9.85US,ft North 42.32 US ft Eastir	on (Relative to Slot centre ing : 377647.84 US ft La ng : 809352.05US ft La	atitude : 32°2'7:02" ongitude : -103°28'6.31"
Shape:	TVD (Kelly B	ushing) : 9711.00 US ft		
Cuboid	Orientation	Azimuth : 359.50°	Inclination : 0.00°	
	Dimensions	Length : 8805.00 US ft	Breadth : 40.00 US ft	Height : 20.00 US ft

Well path created using minimum curvature that the same start and the same start and the same start and the same

Weatherford International Limited

5D Plan Report

Silcocoli	Co(Cololivo)	1170 COBC	o-WDocki	aco-cella	Quelilies)				e antita en a	TRAN	
(USQ)	ine (P)	An (P)	TVD (USQ)	NOME (US D)	Gonset (US (L))	(USC)	915 (9/100 US (1)	Ellato (9/100 VS (1)	TREC (9/100 US	TIFEEE (P)	(interview)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13 3/8 in
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9 5/8 in
9233.54	0.00	0.00	9233.54	0.00	0.00	0.00	0.00	0.00	00.0	0.00	кор
9983.54	90.00	359.50	9711.00	477.45	-4.14	477.47	12.00	12.00	0.00	359.50	LP
14386.11	90.00	359.50	9711.00	4879.85	-42.32	4880.03	0.00	0.00	0.00	0.00	PBHL 1H Lat

Interpolate	Concerned Concerned	divo to Slat a	entre, TVD re	leil of outing	lyCushing)				he state and a	And part in the
nd (VSII)	anî O	Â	tvd (US (L)	Notiet (US (I))	Boliet (US II)	vs (USC)	els (9/100 us ig)	Northing (VSR)	lasing (VSC)	Comment
9200.00	0.00	0.00	9200.00	0.00	0.00	0.00	0.00	372767.99	809394.37	······································
9233.54	0.00	0.00	9233.54	0.00	0.00	0.00	0.00	372767.99	809394.37	КОР
9300.00	7.98	359.50	9299.79	4.62	-0.04	4.62	12.00	372772.61	809394.33	
9400.00	19.98	359.50	9396.65	28.72	-0.25	28.72	12.00	372796.71	809394.12	
9500.00	31.98	359.50	9486.38	72.44	-0.63	72.44	12.00	372840.43	809393.74	
9600.00	43.98	359.50	9565.07	133.86	-1.16	133.86	12.00	372901.85	809393.21	
9700.00	55.98	359.50	9629.26	210.29	-1.82	210.30	12.00	372978.28	809392.55	
9800.00	67.98	359.50	9676.16	298.40	-2.59	298.41	12.00	373066.39	809391.78	
9900.00	79.98	359.50	9703.72	394.34	-3.42	394.35	12.00	373162.33	809390.95	
9983.54	90.00	359.50	9711.00	477.45	-4.14	477.47	12.00	373245.44	809390.23	LP
10000.00	90.00	359.50	9711.00	493.91	-4.28	493.92	0.00	373261.90	809390.09	
10100.00	90.00	359.50	9711.00	593.90	-5.15	593.92	0.00	373361.89	809389.22	
10200.00	90.00	359.50	9711.00	693.90	-6.02	693.92	0.00	373461.89	809388.35	
10300.00	90.00	359.50	9711.00	793.89	-6.88	793.92	0.00	373561.88	809387.49	
10400.00	90.00	359.50	9711.00	893.89	-7.75	893.92	0.00	373661,88	809386.62	
10500.00	90.00	359.50	9711.00	993.89	-8.62	993.92	0.00	373761.88	809385.75	
10600.00	90.00	359.50	9711.00	1093.88	-9.49	1093.92	0.00	373861.87	809384.88	
10700.00	90.00	359.50	9711.00	1193.88	-10.35	1193.92	0.00	373961.87	809384.02	
10800.00	90.00	359.50	9711.00	1293.88	-11.22	1293.92	0.00	374061.87	809383.15	
10900.00	90.0Ó	359.50	9711.00	1393.87	-12.09	1393.92	0.00	374161.86	809382.28	
11000.00	90.00	359.50	9711.00	1493.87	-12.96	1493.92	0.00	374261.86	809381.41	
11100.00	90.00	359.50	9711.00	1593.86	-13.82	1593.92	0.00	374361.85	809380.55	
11200.00	90.00	359.50	9711.00	1693.86	-14.69	1693.92	0.00	374461.85	809379.68	
11300.00	90.00	359.50	9711.00	1793.86	-15.56	1793.92	0.00	374561,85	809378.81	
11400.00	90.00	359.50	9711.00	1893.85	-16.42	1893.92	0.00	374661.84	809377.95	
11500.00	90.00	359.50	9711.00	1993.85	-17.29	1993.92	0.00	374761.84	809377.08	
11600.00	90.00	359.50	9711.00	2093.85	-18.16	2093.92	0.00	374861.84	809376.21	
11700.00	90.00	359.50	9711.00	2193.84	-19.03	2193.92	0.00	374961.83	809375.34	
11800.00	90.00	359.50	9711.00	2293.84	-19.89	2293.92	0.00	375061.83	809374.48	
11900.00	90.00	359.50	9711.00	2393.83	-20.76	2393.92	0.00	375161.82	809373.61	
12000.00	90,00	359.50	9711.00	2493.83	-21.63	2493.92	0.00	375261.82	809372.74	
12100.00	90.00	359.50	9711.00	2593.83	-22.49	2593.92	0.00	375361.82	809371.88	
12200.00	90.00	359.50	9711.00	2693.82	-23.36	2693.92	0.00	375461.81	809371.01	
12300.00	90.00	359.50	9711.00	2793.82	-24.23	2793.92	0.00	375561.81	809370.14	
12400.00	90.00	359.50	9711.00	2893.82	-25.10	2893.92	0.00	375661.81	809369.27	
12500.00	90.00	359.50	9711.00	2993.81	-25.96	2993.92	0.00	375761.80	809368.41	
12600.00	90.00	359.50	9711.00	3093.81	-26.83	3093.92	0.00	375861.80	809367.54	
12700.00	90.00	359.50	9711.00	3193.80	-27.70	3193.92	0.00	375961.79	809366.67	
12800.00	90.00	359.50	9711.00	3293.80	-28.57	3293.92	0.00	376061.79	809365.80	
12900.00	90.00	359.50	9711.00	3393.80	-29.43	3393.92	0.00	376161.79	809364.94	
13000.00	90.00	359.50	9711.00	3493.79	-30.30	3493.92	0.00	376261.78	809364.07	
13100.00	90.00	359.50	9711.00	3593.79	-31.17	3593.92	0.00	376361.78	809363.20	
13200.00	90.00	359.50	9711.00	3693.79	-32.03	3693.92	0.00	376461.78	809362.34	
				3793.78	-32.03	3793.92	0.00			
13300.00	90.00	359.50	9711.00					376561.77	809361.47	
13400.00	90.00	359.50	9711.00	3893.78	-33.77	3893.92	0.00	376661.77	809360.60	
13500.00	90.00	359.50	9711.00	3993.77	-34.64	3993.92	0.00	376761.76	809359.73	
13600.00	90.00	359.50	9711.00	4093.77	-35.50	4093.92	0.00	376861.76	809358.87	
13700.00	90.00	359.50	9711.00	4193.77	-36.37	4193.92	0.00	376961.76	809358.00	
13800.00	90.00	359.50	9711.00	4293.76	-37.24	4293.92	0.00	377061.75	809357.13	

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5D Plan Report

Interpolated Po	hts(Re	inivato Sistem	ing, WDad	litroco. (Cel	VOutino)		***	- Thinks	e Hitchicae	
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13900.00	90.00	359.50	9711.00	4393.76	-38.10	4393.92	0.00	377161.75	809356.27	
14000.00	90.00	359.50	9711.00	4493.76	-38.97	4493.92	0.00	377261.75	809355.40	
14100.00	90.00	359.50	9711.00	4593.75	-39.84	4593.92	0.00	377361.74	809354.53	
14200.00	90.00	359.50	9711.00	4693.75	-40.71	4693.92	0.00	377461.74	809353.66	
14300.00	90.00	359.50	9711.00	4793.74	-41.57	4793.92	0.00	377561.73	809352.80	
14386.11	90.00	359.50	9711.00	4879.85	-42.32	4880.03	0.00	377647.84	809352.05	PBHL 1H Lat

Weatherford International Limited

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Weatherford Drilling Services GeoDec4 v2.1.0.0

Weatherford[®]

Job Number:	Febru					
Customer:	Devo	Devon Energy				
Well Name: Cobber 21 Fed 1H API Number:						
					·	
Rig Name:						
Location:						
Block:	<u> </u>					
Engineer:	RWJ					
NAD83 / New Mexico East (ftUS)			NAD83 (1986)			
Projected Coordinate System Datum: North American Datum 1983 (1986) Ellipsoid: GRS 1980 EPSG: 2257 North: 372767.99 US Survey Foot East: 809394.37 US Survey Foot			Geodetic Coordinate	e Syst	tem	
			Datum: North American Datum 1983 (1986)			
			Ellipsoid: GRS 1980			
			EPSG: 4269			
			Latitude: 32.02187 Degree			
			Longitude: -103.468	841 D	egree	
	-					
Convergence: 0.46°	D					
Declination: 7.23°		·				
Declination: 7.23° Total Correction: 6.	770					
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Declination: 7.23° Total Correction: 6. Datum Transformat Geodetic Location V MSL Elevation = Latitude = Longitude = Magnetic Declinatio Local Gravity Local Field Strength	77° tion: no NGS84 0 m 32° 103° n =	01' 18.73" N ° 28' 06.27" W 7.23 deg .9988 g 48096 nT	CheckSum Magnetic Vector X	=	23921 nT	
Declination: 7.23° Total Correction: 6. Datum Transformat Geodetic Location V MSL Elevation = Latitude = Latitude = Magnetic Declinatio Local Gravity Local Field Strength Magnetic Dip	77°) tion: no WGS84 0 m 32° 103° n = =	01' 18.73" N ° 28' 06.27" W 7.23 deg .9988 g 48096 nT 59.91 deg	CheckSum Magnetic Vector X Magnetic Vector Y	=	23921 nT 3033 nT	

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMNM-112941
WELL NAME & NO.:	Cobber 21 Fed 1H
SURFACE HOLE FOOTAGE:	0065' FSL & 0660' FEL
BOTTOM HOLE FOOTAGE	0330' FNL & 0660' FEL
LOCATION:	Section 21, T. 26 S., R 34 E., NMPM
COUNTY:	Lea County, New Mexico
API:	30-025-42311

The original COAs still stand with the following drilling modifications:

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM-office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1000 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing, which shall be set at approximately **5340** feet (Lamar Limestone), is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

The pilot hole plugging procedure is approved as written. Note plug top on Subsequent Report sundry of drilling activities.

3. The minimum required fill of cement behind the $7 \times 5-1/2$ inch production casing is:

Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Excess calculates to 14% - Additional cement may be required.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. 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.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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