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Type of work: □ DRILL □ REENTER 2. If Unit of CA Agrocment, Name and No. Type of Well: □ Oti Well □ Gas Well □ Other □ Single Zone: □ Multiple Zone R. Lase: Name and No. Name of Operator Devon Energy Production. Company L.P. ≤ 6/3772 9. API Well No. 30: 0 - 0/15 - 0/1/05 V Address 333 W. Sheridan 0/42325-3611 0/44/04 Content-Hite-Boos Spring 2. 20137 Address 333 W. Sheridan 0/42325-3611 0/44/04 Content-Hite-Boos Spring 2. 20137 Location of Will Rove Loadson clarby and in accordance wint any Sate reparament.? 11. Sec. 1. R. M. or Bit and Sarey or Arcs SEC OF 271S R27E 13. State Sate Transmitter and foreclose from reproteed? 13. State Distance in miles and fraction from nearest town or pot differ 10. No. of acres in lease 17. Specing Unit defactate to fils well 10. Distance in miles and fraction from nearest town or pot differ 13. State 10. 13. State Declare the porposed location 13. State 10. 10. Dotation to index 10. Distance in miles and fraction from nearest town or pot differ 13. State 10. 10. 10. Distance in miles and frice In specific distance 10. </td <td>· · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td>e or Tribe Name</td> <td>-707</td>	· · · · ·					e or Tribe Name	-707
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Devon Energy Production, Company L. P. C 6 3 7 7 SD - OSS - 44/0555 Address 333 W. Sheridan Oxtahoma City, OK 73102 36. Priore No. findlet area cost) 405 253611 11 Field and No. of Exploratory Codent-Hist-Bone Spring 2 2013 - 2015 Location of Well (Right Locator clearly and in acordance with any Sale requirements 7) 11. Sec., T. R. M. or Bits, and Survey or Area SEC 9 7215 R27E Location of Well (Right Locator clearly and in acordance with any Sale requirements 7) 11. Sec., T. R. M. or Bits, and Survey or Area SEC 9 7215 R27E Location of action of Carlsbad, NM 330' 16. No of acres in lease 200 ac 12. County or Parish Eddy 13. State MM Distance in miss and direction from measure town or post office Dotation to rearrest property or kase line, ft. 13. State Eddy 13. State Eddy 13. State Eddy Distance from proposed? 330' 20. BL/MBIA Bend No. on file CO-1104; NMB-000801 10. Proposed Depth FH: 6937' 20. BL/MBIA Bend No. on file CO-1104; NMB-000801 PH registered surveyor. 22. Approximate date work will start* 23. Listimated duration 45 days Vell plate crified by a registered surveyor. 24. Attachments Pad wind with the ord to Pad Can #H Signatuh Surve Primed/Typed/ Judy A. Barnett 07/20/2012 Signatuh Such other site specific information and/or plans as may be required by the BLM. Signatuh Name (Printed/Typed) Judy A. Barnett Dair O7/20/2012 <		Other	Single Zone Mult	tiple Zone	Cerf 10 Federal 3	H CS96	547
Address 323 W. Sheridan Oddhoma Clip, OK 73102 3b. Phone No. Imidue area codel 405-235-3611 1b. Tiedland Dice: Exploratory 2005-000-000000000000000000000000000000	•	ompany L. P.	<6137	7		5-410	58
Location of Well (Report Jecation clearly and in accordace with any Sue requirements ") 11. Sec., T. R. M. or Bik and Survey of Area At surface A <u>MPT</u> FIL & 300 FEL 11. Sec., T. R. M. or Bik and Survey of Area Self-Order Line, A 20 acc Distance from prograd 330" Distance from prograd See attached map 6656" TVD 11.77" MD PH-6667" 22. Approximate date work will start" 11" GL 24. Attachments PH-6667" Pad distud or from consisting bond on file CO-1104: NME-000801 PH+6697" PH-6697" 24. Attachments Pad distud or file distante with the requirements of Onshore Oil and Gas Order No. F, most be attached to this form: Well plat certified in accordance with the requirements of Onshore Oil and Gas Order No. F, most be attached to this start be core to care the operations unless covered by an existing bond on file (see Infine 2) above). Signarul Var VPO must te file with the appropriate Forst Service Office. 9. Operator certification Signarul Vare (Printed/Typed) 1/s/ Don Pe	Address 333 W. Sheridan Oklahoma City, OK 73102			Auston	10. Field and Pool, or		クマフ
At proposed process A 660 FNL & 330 FEL SEC 10 12 County or Parish 13 State Distance fin miges and direction from nearest town or post office 12 County or Parish 13 State Miles north of Carisbad, NM 10 Formace fine, if any 330 Distance fine proposed* 330 16. No. of acress in lease 17, Spacing Unit dedicated to this well Boaton for proposed* See attached map 19 Proposed Depth 20. BLM/BIA Bond No. on file Distance from proposed See attached map 19 Proposed Depth 20. BLM/BIA Bond No. on file Distance from proposed See attached map 12 A provimate date work will star* 21. Estimated duration Hold Distance from proposed 22. Approximate date work will star* 23. Estimated duration 45 days H1*GL 22. Approximate date work will star* 23. Estimated duration 45 days UP on ust te filed with the exportancements of Orshore Oil and Gas Order No I, must be attached to this form: 9. Operator certification 5. Operator certification Surface Use Plan (if the location is on National Forest System Lands, the BLM with the appropriate Forest Service Office) 14. Bond to ouver the operation unless overed by an existing bond on file (see BLM with the appropriate Forest Service Office) 5. Operator certification 5. Operator certification	Location of Well (Report location clearly and in accon	dance with arry State	Con. 900				a
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Miles north of Carlsbad, NM Eddy NM Didates from proposed property or lase line, from proposed property or lase line, from proposed (scattor) applied for, on this lease, ft. 330' 16. No. of acres in lease property or lase line, from proposed (scattor) sprease line, from proposed (scattor) applied for, on this lease, ft. 19. Proposed Depth 6587' 20. BLM/BIA Bond No. on file CO-1104; NIMB-000801 Distance from proposed (scattor) applied for, on this lease, ft. See attached map 6587' 22. Approximate date work will start* 23. Estimated duration 45 days Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 45 days It'' GL 24. Attachments Pad diffeed with the cart 10 Ped Con 4H following, completed in accordance with the requirements of Orishore Oil and Gas Order No. I, must be attached to this form: 4. Bond to cover the operations unless covered by an existing bund on file (see them 20 above). Surface Use Plan (if the location is on National Forest Strive Office). Name (Printed/Typed) Judy A Barnett Date 0720/2012 Attachments Pad durater file information and/or plans as may be required by the BLISC Scition 100 and Tile 43 USC. Section 1021 applicant bolds legal or equitable title to those rights in the subjectlease which would entitle the applicant to uet operations thereo. Date 0720/2012 FIELD MANAGER Office CARCLSBAD FIELD OFFICE Requel	and the second secon	م يو في د د م بي التي التي التي التي التي التي التي الت		กร <i>ัฐการสถานสถานสถาน</i> 	12. County or Parish	13. State	· · · · ·
Distance for project of Read line, if any) 280 ac 160 280 ac 180 Also to nearest dig, unit line, if any) 280 ac 100 Distance from proposed location* See attached map 6567' TVD 11,777' MD PH: 6697' 20. BLM/BLA Bond No. on file CO-1104' NMB-000801 Periods of the control of the contrel of the control of the control of the control of th	Miles north of Carlsbad, NM						• •
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111 GL 45 days 24. Attachments Pad drilled with the Cert 10 Fed Corn 4H following, completed in accordance with the requirements of Onshore Oil and Gas Order No. F, must be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see then 20 above). Vell plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see then 20 above). Surface Use Plan (if the location is on National Forest System Lands, the DP must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing bond on file (see then 20 above). Signatur Amme (Printed/Typed) 5. Operator certification. Signatur Name (Printed/Typed) Date Office CARLSBAD FIELD OFFICE Date FEB - 1 2013 FIELD MANAGER Office CARLSBAD FIELD OFFICE Regulatory Specialist Office CARLSBAD FIELD OFFICE Ritions of approval, if any, are attached. Name (Printed/Typed) /s/ Don Peterson B USC. Section 1001 and Title 43 USC. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United says false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Capitan Controlled Watter Bassin RECEIVED FEB 0 5 2013 Capita	Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	656	57' TVD 11,777' MD	1			
following, completed in accordance with the requirements of Onshore Oil and Gas Order No, F, must be attached to this form: Well plat certified by a registered surveyor. Drilling Plan. Surface Use Plan (if the location is on National Forest System Lands, the UPO must be filed with the appropriate Forest Service Office) Signature Signature Signature Regulatory Specialist roved by (Signature) Is/ DON Peterson Name (Printed/Typed) Judy A. Barnett Office CARLSBAD FIELD OFFICE Regulatory Specialist roved by (Signature) Is/ DON Peterson Name (Printed/Typed) Judy A. Barnett Date FEB - 1 2013 Field MANAGER Office CARLSBAD FIELD OFFICE Itcation approval does not warrant or certify that the applicant holds legal orequitable title to those rights in the subjectlease which would entitle the applicant to uet operations of approval, if any, are attached. BUSC. Section 1001 and Title 43 USC. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United samp false, fictuitous or fraudulent statements or representations as to any matter within its jurisdiction. Continued on page 2) *(Instructions, on page, 2) <td>Elevations (Show whether DF, KDB, RT, GL, etc.) 11'GL</td> <td> 22</td> <td>Approximate date work will st</td> <td>lart*</td> <td>1.</td> <td>on</td> <td></td>	Elevations (Show whether DF, KDB, RT, GL, etc.) 11'GL	22	Approximate date work will st	lart*	1.	on	
Well plat certified by a registered surveyor. Image: Construction of the surveyor. Drilling Plan. Surface Use Plan (if the location is on National Forest System Lands, the UPO must be filed with the appropriate Forest Service Office). Image: Construction of the subsection of the		24	. Attachments	Pad drilled w/	the Cerf 10 Fed Corn 4H		
A Drilling Plan. Surface Use Plan (if the location is on National Forest System Lands, the UPO must be filed with the appropriate Forest Service Office). Item 20 above). S. Operator certification. Signature Surface Use Plan (if the location is on National Forest System Lands, the UPO must be filed with the appropriate Forest Service Office). S. Operator certification. So Operator certification. Signature Mare (Printed/Typed) Date Date Applicatory Specialist Operator operator Name (Printed/Typed) Js/ Don Peterson FIELD MANAGER Office CARLSBAD FIELD OFFICE Date FEB - 1 2013 Ite add the applicant holds legal or equitable title to those rights in the subject lease which would child the applicant to uc operations thereon. APPROVAL FOR TWO YEARS RUSC. Section 101 and Title 43 USC. Section 1212, make if a crime for any person knowingly and willfully to make to any department or agency of the United s any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. *(Instructions on nage, 2) RECEIVED FEB 0 5 2013 *(Instructions on nage, 2)	following, completed in accordance with the requirement	nts of Onshore Oil	and Gas Order No. I, must be	attached to th	is form:		
Judy A. Barnett 07/20/2012 Regulatory Specialist Date FEB 07/20/2012 roved by (Signature) /S/ Don Peterson Date FEB - 1 2013 FIELD MANAGER Office CARLSBAD FIELD OFFICE lication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to uct operations thereon. APPROVAL FOR TWO YEARS 18 USC. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United sa any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. *(Instructions on page 2) RECEIVED FEB 0 5 2013	Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Fo UPO must be filed with the appropriate Forest Service	rest System Lands Office)	s, the 5. Operator certif 6. Such other sit). fication			
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Regulatory Specialist Name (Printed/Typed) /s/ Don Peterson Date FEB - 1 2013 FIELD MANAGER Office CARLSBAD FIELD OFFICE lication approval does not warrant or certify that the applicant dutors of approval, if any, are attached. holds legal or equitable title to those rights in the subject lease which would entitle the applicant to APPROVAL FOR TWO YEARS 18 USC. Section 1001 and Title 43 USC. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United s any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. *(Instructions on page, 2) RECEIVED FEB 0 5 2013 FEB 0 5 2013			Judy A. Barnett	··· ·· ·· · · ·		07/20/2012	
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Interport of the control of the con	oved by (Signature) /s/ Don Peterson	3	Name (Printed/Typed)	/s/ Don [Peterson	Date FEB -	1 2013
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Approval Subject to General Requirements & Special Stipulations Attached SEE ATTACHED FOR CONDITIONS OF APPROVAL

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District I 1625 N. French Dr., Hobbs, NM 8	3240		Stat	te of New	v Mexico	·		Form C-
Phone: (575) 393-6161 Fax: (575) District II		Energ	y, Minerals	& Natur	al Resources E	epartment	· Cashara	Revised August 1, 2
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District III 1000 Rio Brazos Road, Aztec, NM					Francis Dr.		i	
Phone: (505) 334-6178 Fax: (505) <u>District IV</u> 1220 S. St. Francis Dr., Santa Fc, 3			Sar	ita Fe, NI	M 87505		Ļ	AMENDED REPO
Phone: (505) 476-3460 Fax: (505)	476-3462	VELLIO			REAGE DEDIC		ΔT	·
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Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this _19th__ day of __July, 2012. Printed Name: Judy A. Barnett Signed Name: _______ Position Title: Regulatory Specialist Address: 333 W. Sheridan, OKC OK 73102 Telephone: (405)-228-8699 Field Representative (if not above signatory): Address (if different from above):

Telephone (if different from above):

DRILLING PROGRAM

Devon Energy Production Company, LP

Cerf 10 Federal 3H

Surface Location: 1270' FNL & 300' FEL, Unit A, Sec 9 T21S R27E, Eddy, NM Bottom Hole Location: 1980' FNL & 340' FEL, Unit A, Sec 10 T21S R27E, Eddy, NM

Geologic Name of Surface Formation

a. Quaternary Alluvium

2.

Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

	•		
a.	Rustler	30'	FW
b.	Salado	197'	Barren
c.	Base Salado	317'	Barren
d.	Capitan	797'	Barren
e.	Capitan Base	2452'	Barren
f.	Delaware	2727'	Oil
g.	Bone Spring Lm	5112'	Oil
h.	1 st Bone Spring Ss	6327'	Oil
i.	1st Bone Spring Ss Upper	6327'	Oil
j.	1 st Bone Spring Ss Mid	6392'	Oil
k.	1 st Bone Spring Ss Mid B	6427'	Oil
1.	2 nd Bone Spring Lime	6547'	Oil
Τc	otal Depth	11,493'	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 20" casing at 175' and circulating cement back to surface. Fresh water sands will be protected by setting 13 3/8" casing at 750' and 9 5/8" at 2900^{2-7} . The Bone Spring intervals will be isolated by setting the 5 $\frac{1}{2}$ " casing to total depth. All casing is new and API approved.

Casing Program: (all cement volumes based on at least 25% excess)

		0 (
	<u>Hole</u>	Hole	OD Csg	Casing	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	
	<u>Size</u>	<u>Interval</u>		Interval		•		
	26"	0 – 175'	20"	0'-175'	94#	BT&C	J/K-55	
$\int \partial \Omega$	17 ½"	175 - 750'	13 3/8"	0'-750'	68#	BT&C	J/K-55	
Sell	$17 \frac{1}{2}$ " 12 $\frac{1}{4}$ "	750-2900,2	63 9 5/8"	0'-2900'	40#	LT&C	J-55	
1.08	<u>\</u> 8 ¾"	2900'-5700'	5 1/2"	0'-5700'	17#	LT&C	HCP110	
C	8 ¾"	5700-11,493	5 ½"	5700-11,493'	17#	BT&C	HCP110	

MAX TVD in lateral 6567'

Design Paramet	er Factors:		
Casing Size	Collapse Design	<u>Burst Design</u>	Tension Design
	Factor	Factor	Factor
20"	6.36	25.79	47.66
13 3/8"	1.98	4.44	8.94
9 5/8"	1.34	2.34	3.77
5 1/2"	3.22	3.99	4.59
5 1/2"	2.79	3.47	2.91

The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. The pore pressure is estimated to be 10.0 ppg for this calculation. This results in a collapse design factor of 1.34 for 9.625" 36# J-55 ST&C casing at a depth of 2,900'. While running the intermediate casing, the casing will never be completely evacuated. There is no potential for the intermediate casing to be used as a production string.

Cement Program: (volumes based on at least 25% excess)

20" Su	rface Lead: 400 sx Cl C+ 2% bwoc Calcium Chloride + 0.125#/sx CF + 56.3% FW, 14.8 ppg, Yld: 1.35 cf/sx. TOC @ surface.
13 3/8"Interme	diate Lead: 388 sx Cl C + 2% bwoc Calcium Chloride + 0.125#/sx CF + 4% bwoc Bentonite + 81.4%FW, 13.5 ppg, Yld: 1.75 cf/sk . TOC @ surface. Tail: 250 sx Cl C + 2% bwoc Calcium Chloride + 0.125#/sx CF + 56.3%FW, 14.8 ppg Yld: 1.35 cf/sx
9 5/8" Interme	Chloride + 0.125#/sx CF + 3#/sx LCM-1 + 1% bwoc Sodium Metasilicate + 0.4% bwoc R-3 + 0.25% bwoc FL-52 + 89.5% FW, 12.6 ppg Yield: 1.74 cf/sk Tail: 300 sx (60:40) Poz (Fly Ash):Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 0.5% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 0.5% bwoc BA-10A + 65.3% FW, 13.8 ppg Yld: 1.38 cf/sx. TOC @ surface
5 ½" Product	 Lead: 1080 sz (35:65) Poz (Fly Ash):Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 0.4% bwoc FL-52 + 6% bwoc Bentonite + 107.7% FW, 12.5 ppg Yld: 2.04 cf/sx Tail: 1550 sx (50:50) Poz (Fly Ash):Cl C + 5% bwow Sodium Chloride + 0.4% bwoc CD-32 + 0.4% bwoc FL-25 + 0.4% bwoc FL-52 + 0.4% bwoc Sodium Metasilicate + 57.2% FW, 14.2 ppg Yld: 1.28 cf/sx. TOC @ Surface
PH @ 6697	Cement w/ 380 sx Class H, FW 15.6 ppg, Yld 1.18cf/sx.

Pressure Control Equipment

The BOP system used to drill the $17\frac{1}{1}/2$ " hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 2M system prior to drilling out the casing shoe.

The BOP system used to drill the 12-1/4" and 8-3/4" holes will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the casing shoe.

The pipe rams will be operated and checked as per Onshore Order No 2. 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.

Proposed Mud Circulation System

Depth	<u>Mud Wt.</u>	Visc	Fluid Loss	Type System	
0 - 175'	8.4-9.4	32-34	NC	FW	
175 – 750'	9.8-10.0	28	NC	Brine	•
. 750 - 2990	8.3-8.4	28-29	NC	FW	
2900 - 11,493'	8.3-8.6	28-29	NC	FW	
$NU \leq$					

The necessary mud products for weight addition and fluid loss control will be on location at all times.

3. 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.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 20" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

See Got

4. Logging, Coring, and Testing Program:

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing
 - and Gamma Ray. Compensated Neutron Z Density log with Gamma Ray and Caliper.

Dual Laterolog-Micro Laterolog with SP

Compensated Neutron with Gamma Ray

- ii. Total Depth to Surface
- iii. No coring program is planned
- iv. Additional testing will be initiated subsequent to setting the 5 ¹/₂" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

5. **Potential Hazards:**

a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3800 psi and Estimated BHT 140°. No H2S is anticipated to be encountered.

6. Anticipated Starting Date and Duration of Operations:

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



Devon Energy, Inc.

Eddy County (NAD83) Cerf 10 Federal -#3H OH

Plan: Plan #3

PathfinderX & Y Report

28 August, 2012



devon		Pathf i PathfinderX		· . *	PATHYINDER A Schlumberger Company
CompanyDevon EnergyProject:Eddy CountySite:Cerf 10 FederWeill:#3HWeill:OHDesign:Plan #3	(NAD83)		Local Co-ordinate I TVD, Reference: MD Reference: North Reference Survey Calculation Database	WELL @ 3237.3usft (Ha WELL @ 3237.3usft (Ha Grid	&P 300)
Project	ddy County (NAD83)				
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Site	erf 10 Federal		And a state of the		an a
Site Position: From: Map Position Uncertainty:	0.0 usft	Northing: Easting: Slot Radius:	545,094.310 usft 586,373.400 usft 13-3/16 "	Latitude: Longitude: Grid Convergence:	32.498441 -104.187255 0.08°
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From To (usft) (usft)	ate 8/28/2012 Survey.(Wellbore) 76.1 Plan #3 (OH)	Tool Name Pathfinder	Description Pathfinder MWD		
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8/28/2012 3:44:28PM	·	Page 2			COMPASS 5000.1 Build 56

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COMPASS 5000.1 Build 56

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600.0	0.00	0.00	600.0	-2,637.3	0.0	0.0	0.0	0.00	545,094.31	586,373.40
700.0	0.00	0.00	700.0	-2,537.3	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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^C 1,200.0	0.00	0.00	1,200.0	-2,037.3	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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1,600.0	0.00	0.00	1,600.0	-1,637.3	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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3,200.0	0.00	0.00	3,200.0	-37.3	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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3,400.0	0.00	0.00	3,400.0	162.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
3,500.0	0.00	0.00	3,500.0	262.7	0.0	0.0	0.0	0.00	545,094,31	586,373.40
3,600.0	0.00	0.00	3,600.0	362.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
3,700.0	0.00	0.00	3,700.0	462.7	0.0	0.0	0.0	• 0.00	545,094.31	586,373.40
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Company Project: Site: Well: Wellbore: Design:	Eddy C	Energy (Inc ounty (NAD83) Federal					Local Co-ordinate Re TVD Reference: MD Reference: North Reference: Survey Calculation M Database:	N N G lethod: M	(ell #3H (ELL @ 3237.3ùsh (ELL @ 3237.3ùsh rid inimum Cũrvature DM 5000.1 Single	(H&P 300)	
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	4,600,0	0.00	0.00	4,600.0	1,362.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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	4,800.0	0.00	0.00	4,800.0	1,562.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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	5,300.0	0.00	0.00	5,300.0	2,062.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
	5,400.0	0.00	0.00	5,400.0	2,162.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
	5,500.0	0.00	0.00	5,500.0	2,262.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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	5,700.0	0.00	0.00	5,700.0	2,462.7	· 0.0	0.0	0.0	0.00	545,094.31	586,373.40
	5,800.0	0.00	0.00	5,800.0	2,562.7	0.0	0.0	0.0	0.00	545,094.31	586,373.40
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	5,900:0	^{·3} 6.59	42.51	5,899.9	2,662.6	2.8	2.6	2.9	10.00	545,097.10	586,375.96
	5,950.0	11.59	42.51	5,949.2	2,711.9	8.6	7.9	8,9	10.00	545,102.92	- 586,381.29
	6,000.0	16.59	42.51	5,997.7	2,760.4	17.6	16.1	18.1	10.00	545,111.89	586,389.52
	6,050,0	21.59	· 42.51	6,044.9	2,807.6	29.6	27.2	30.6	10.00	545,123.94	586,400.56
	6,100.0	26.59	42:51	6,090.6	2,853.3	44.7	· 40.9	. 46.1	10.00	545,138.98	586,414.35
	6,150.0	31.59	42.51	6,134.2	2,896.9	62.6	57.4	64.5	10.00	545,156.90	586,430.77
	6,200.0	36.59	42.51	6,175.6	2,938.3	83.2	76.3	85.8	10.00	545,177.55	586,449.70
	6,250.0	41.59	42.51	6,214.4	2,977.1	106.5	97.6	109.8	10.00	545,200.78	586,471.00
	6,300.0	46.59	42.51	6,250.3	3,013.0	132.1	121.1	136.2	10.00	545,226.42	586,494.50

8/28/2012 3:44:28PM





A Schlumberger Company

Project: Eddy Cou Site: Cerf 10 F	nergy, Inc. unty (NAD83) ederal			2		Local Co-ordinate F FVD Reference: MD Reference:	WE WE	ell #3H ELL @ 3237.3usft ELL @ 3237.3usft		
Well: #3H Wellbore: OH Design: Plan #3						North Reference: Survey Calculation Database:	1. HARSEN	d nimum Curvature M 5000.1 Šingle l	Jser Db	
Planned Survey		5. 							a and the second	
MD	linc Aži ((azimuth)	TVD	TVDSS	N/S	'E/W	V: Sec	DLeg	Northing	Easting
(usft)	([®]) ²	(°)	(usft)	:(usft)	State and the second states of the second	(usft)	a constant a second a	00usft)	(usft)	(usft)
6,350.0	51.59	42.51	6,283.1	3,045.8	160.0	146.6	164.9	10.00	545,254.26	586,520.02
6,400.0	56.59	42.51	6,312.4	3,075.1	189.8	174.0	195.7	10.00	545,284.11	586,547.38
6,427.6	59.35	42.51	6,327.0	3,089.7	207.0	189.8	213.5	10.00	545,301.34	586,563.17
1st Bone Spring Ss 6,450.0	- 1st Bone Spring S 61.59	Ss Upper 42.51	6,338.1	3,100.8	221.4	203.0	228.3	10.00	545,315.72	586,576.36
6,500.0	66.59	42.51	6,359.9	3,122.6	254.6	233.3	262.5	10.00	545,348.86	586,606.74
6,550.0	71.59	42.51	6,377.7	3,140.4	289.0	264.9	298.0	10.00	545,383.28	586,638.29
6,600.0	76.59	42.51	6,391.4	3,154.1	324.4	297.4	334.5	10.00	545,418.72	586,670.77
6,602.5	76.84	42.51	6,392.0	3,154.7	326.2	299.0	336.3	10.00	545,420.48	586,672.38
1st Bone Spring Ss	Mid			use in Education		د. در ایر بینو میشر است. در ایر ایرو میشر ایشور ایرو				an a
6,650.0	81.59	42.51	6,400.9	3,163.6	. 360.6	330.5	371.8	10.00	545,454.90	586,703.93
. 6,700.0	86.59	42.51	6,406.0	3,168.7	397.2	364.1	409.6	10.00	545, 4 91.55	586,737.53
6,730.1	89.60	42.51	6,407.0	3,169.7	419.4	384.5	432.5	10.00	545,513.72	. 586,757.86
6,800.0	89.59	45.31	6,407.5	3,170.2	469.8	432.9	486.7	4.00	545,564.08	586,806.33
6,900.0	89.58	49.31	6,408.3	3,171.0	537.6	506.4	567.9	4.00	545,631.87	586,879.81
7,000.0	89.57	53.31	6,409.0	3,171.7	600.1	584.4	652.9	4.00	545,694.37	586,957.84
7,100.0	89.56	57.31	6,409.8	3,172.5	657.0	666.6	741.4	4.00	545,751.28	587,040.04
7,200.0	89.56	61.31	6,410.5	3,173.2	708.0	752.6	832.9	4.00	545,802.31	587,126.01
7,300.0	89.55	65.31	6,411.3	3,174.0	752.9	841.9	927.1	4.00	545,847.22	587,215.33
7,400.0	89.55	. 69.31	6,412.1	3,174.8	791.5	934.2	1,023.3	4.00	545,885.79	587,307.57
7,500.0	89.56	73.31	6,412.9	3,175.6	823.5	1,028.9	1,121.2	4.00	545,917.83	587,402.27
7,600.0	89.56	77.31	6,413.6	3,176.3	848.9	1,125.6	1,220.3	4.00	545,943.19	587,498.98
7,700.0	89.56	81.31	6,414.4	3,177.1	867.4	1,223.8	1,320.0	4.00	545,961.74	587,597.22
7,800.0	89.57	85.31	6,415.1	3,177.8	879.1	1,323.1	1,420.0	4.00	545,973.39	587,696.52
7,900.0	89.58	. 89.31	6,415.9	3,178.6	. 883.8	1,423.0	1,519.7	4.00	545,978.09	587,796.38
8,006.8	89.60	93,58	6,416.7	3,179.4	881.1	1,529.7	1,625.3	4.00	545,975.40	587,903.11
8,100.0	89.60	93.58	6,417.3	3,180.0	875.3	1,622.7	1,716.9	0.00	545,969.58	587,996.14
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Project: Eddy						Local Co-ordinate F TVD,Reference: MD Reference: North Reference Survey Calculation Database	WE WE Gri Method: Mir	II #3H ELL @ 3237.3uşft ELL @ 3237.3uşft d iimum Curvature M 5000.1 Single	(H&P 300)	
Planned Survey									19 19	
MD (usft)		(azimuth) (°)	TVD (usft)	TVDSS (úsft)	N/S (usft)	E/W (usft)	N TO THE SECOND STREET	DLeg 00usft)	Northing (usft)	Easting (usft)
8,200.0	89.60	93.58	6,418.0	3,180.7	869.0	1,722.5	1,815.2	0.00	545,963.34	588,095.94
8,300.0	89.60	93.58	6,418.7	3,181.4	862.8	1,822.3	1,913.6	0.00	545,957.10	588,195.74
8,400.0	89.60	93.58	6,419.4	3,182.1	856.5	1,922.1	2,011.9	0.00	545,950.86	588,295.54
8,500.0	89.60	93.58	6,420.1	3,182.8	850.3	2,021.9	2,110.2	0.00	545,944.62	588,395.35
8,600.0	89.60	93.58	6,420.8	3,183.5	844.1	2,121.7	2,208.5	0.00	545,938.37	588,495.15
8,700.0	89.60	93.58	6,421.5	3,184.2	837.8	2,221.6	2,306.8	0.00	545,932.13	588,594.95
8,763.9	89.60	93.58	6,422.0	3,184.7	833.8	2,285.3	2,369.6	0.00	545,928.15	588,658.70
Mid Lateral PT(C	Cerf 10 Federal #3H)				و ورجو منه		and and a complete second s			· · · · · · · · · · · · · · · · · · ·
8,800.0	88.87	93.58	6,422.5	3,185.2	831.6	2,321.4	2,405.1	2.00	545,925.89	588,694.75
8,884.0	87.19	93.57	6,425.4	3,188.1	826.3	2,405.1	2,487.6	2.00	545,920.66	588,778.51
8,900.0	87.19	93.57	6,426.1	3,188.8	. 825.4	2,421.1	2,503.3	0.00	545,919.66	588,794.49
8,917.4	87.19	93.57	6,427.0	3,189.7	824.3	2,438.4	2,520.4	0.00	545,918.58	588,811.80
1st Bone Spring	Ss Mid B	NT FOR THE STREET		· · · · · · · · · · · · · · · · · · ·		4 4 4 4 4 4 4 4 -	وسيعود فالمعالي المستعود ا	يتوت باراتيانهم	میں بھر بہ دریسہ۔ میں	· .
9,000.0	87.19	93.57	6,431.0	3,193.7	819.1	2,520.8	2,601.5	0.00	545,913.44	588,894.17
9,100.0	87.19	93.57	6,435.9	3,198.6	812.9	2,620.5	2,699.7	0.00	545,907.22	588,993.86
9,200.0	87.19	93.57	6,440.8	3,203.5	806.7	2,720.1	2,797.9	0.00	545,901.00	589,093.54
9,300.0	87.19	93.57	6,445.7	3,208.4	800.5	2,819.8	2,896.1	0.00	545,894.77	589,193.23
9,400.0	87.19	93.57	6,450.6	3,213.3	794.2	2,919.5	2,994.3	0.00	545,888.55	589,292.92
9,500.0	87.19	93.57	6,455.5	3,218.2	788.0	3,019.2	3,092.5	0.00	545,882.33	589,392.60
9,600.0	87.19	93.57	6,460.4	3,223.1	781.8	3,118.9	3,190.7	0.00	545,876.11	589,492.29
9,700.0	87.19	93.57	6,465.3	3,228.0	775.6	3,218.6	3,288.9	0.00	545,869.88	589,591.97
9,800.0	87.19	93,57	6,470.2	3,232.9	769.4	3,318.3	3,387.1	0.00	545,863.66	. 589,691.66
9,900.0	87.19	93.57	6,475.1	. 3,237.8	763.1	3,417.9	3,485.3	0.00	545,857.44	589,791.35
10,000.0	87.19	93.57	6,480.0	3,242.7	756.9	3,517.6	3,583.5	0.00	545,851.22	589,891.03
10,100.0	87.19	93.57	6,484.9	3,247.6	750.7	3,617.3	3,681.7	0.00	545,845.00	589,990.72
10,200.0	87.19	93.57	6,489.8	3,252.5	744.5	3,717.0	3,779.9	0.00	545,838.77	590,090.40
10,300.0	87.19	93.57	6,494.7	3,257.4	738.2	3,816.7	3,878.1	0.00	545,832.55	590,190.09



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Children of the Children of the	nergy (Inc punty (NAD83) Federal					Local Co-ordinate TVD Reference: MD Reference: North Reference: Survey Calculation Database:		Well #3H WELL @ 3237 3usf WELL @ 3237 3usf Grid Miñimum Curvature EDM 5000 1 Single	(H&P, 300)	
ed Survey		Y MARINE SAME	(Augura)) an a'		an suite	n in Alberta	eac altai		n na stan an ta	میں
MD (usft)	Contraction of the second second	(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (üsft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,400.0	87.19	93.57	6,499.6	3,262.3	732.0	3,916.4	3,976.3	. 0.00	,545,826.33	590,2
10,500.0	~87.19	93.57	6,504.5	3,267.2	725.8	4,016.1	4,074.5	0.00	545,820.11	590,3
10,600.0	87.19	93.57	6,509.4	3,272.1	. 719.6	4,115.7	4,172.6	0.00	545,813.88	590,4
10,700.0	87.19	93.57	6,514.3	3,277.0	713.4	4,215.4	4,270.8	0.00	545,807.66	590,5
10,800.0	87.19	93.57	6,519.2	3,281.9	707.1	4,315.1	4,369.0	0.00	545,801.44	590,6
10,900.0	_ 87.19	93.57	6,524.1	3,286.8	700.9	4,414.8	4,467.2	0.00	545,795.22	590,7
11,000.0	87.19	93:57	6,529.0	3,291.7	694.7	4,514.5	4,565.4	0.00	545,788.99	590,8
11,100.0	87.19	93.57	6,533.9	3,296.6	688.5	4,614.2	4,663.6	0.00	545,782.77	590,9
11,200.0	87.19	93.57	6,538.8	3,301.5	682.2	4,713.9	4,761.8	0.00	545,776.55	591,0
11,300.0	87.19	93.57	6,543.7	3,306.4	676.0	4,813.6	4,860.0	0.00	545,770.33	591,1
11,368.0	87.19	93.57	6,547.0	3,309.7	671.8	4,881.4	4,926.8	0.00	545,766.09	· 591,2
2nd Bone Spring L	ime						MET SPIN			i Ar
11,400.0	87.19	93.57	6,548.6	3,311.3	669.8	4,913.2	4,958.2	0.00	545,764.11	591,2
11,500.0	87.19	93.57	6,553.5	. 3,316.2	663.6	5,012.9	5,056.4	0.00	545,757.88	591,3
11,600.0	87.19	93.57	6,558.4	3,321.1	657.4	5,112.6	5,154.6	0.00	545,751.66	591,4
11,700.0	87.19	93.57	6,563.3	3,326.0	651.1	5,212.3	5,252.8	· 0.00	545,745.44	591,5
11,776.5	87.19	93.57	6,567.0	3,329.7	646.4	5,288.5	5,327.9	. 0.00	545,740.68	591,6

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	(5 .2)	
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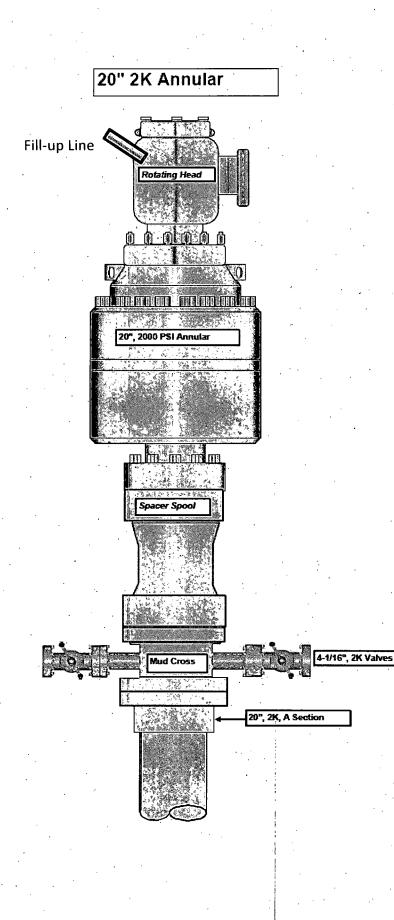
oject: :e: ell: ellbore:	Devon Energy, Ir Eddy County (N/ Cerf 10 Federal #3H OH Plan #3	\D83)(َ بِي ال		TVD Refere MD Referen North Refer	rce: WELL @ 3 rence: Grid culation Method: Minimum C	237 3ustt (H&P 300) 237 3ustt (H&P 300)
rmations						
N	Depth	Vertical Depth			Dip ection	
	(usft) 6,427.6	(usft)	Name Lithe	ology (°)	(;)	
	8,917.4		1st Bone Spring Ss Opper			/
	197.0		Salado			
	5,112.0		Bone Spring Lm			
	6,427.6	6,327.0	1st Bone Spring Ss			
	11,368.0	6,547.0	2nd Bone Spring Lime			· .
	2,727.0	2,727.0	Delaware			
	2,452.0	2,452.0	Capitan Base	-		
	797.0		Capitan	-		
•	317.0		Base Salado			
	6,602.5	6,392.0	1st Bone Spring Ss Mid			

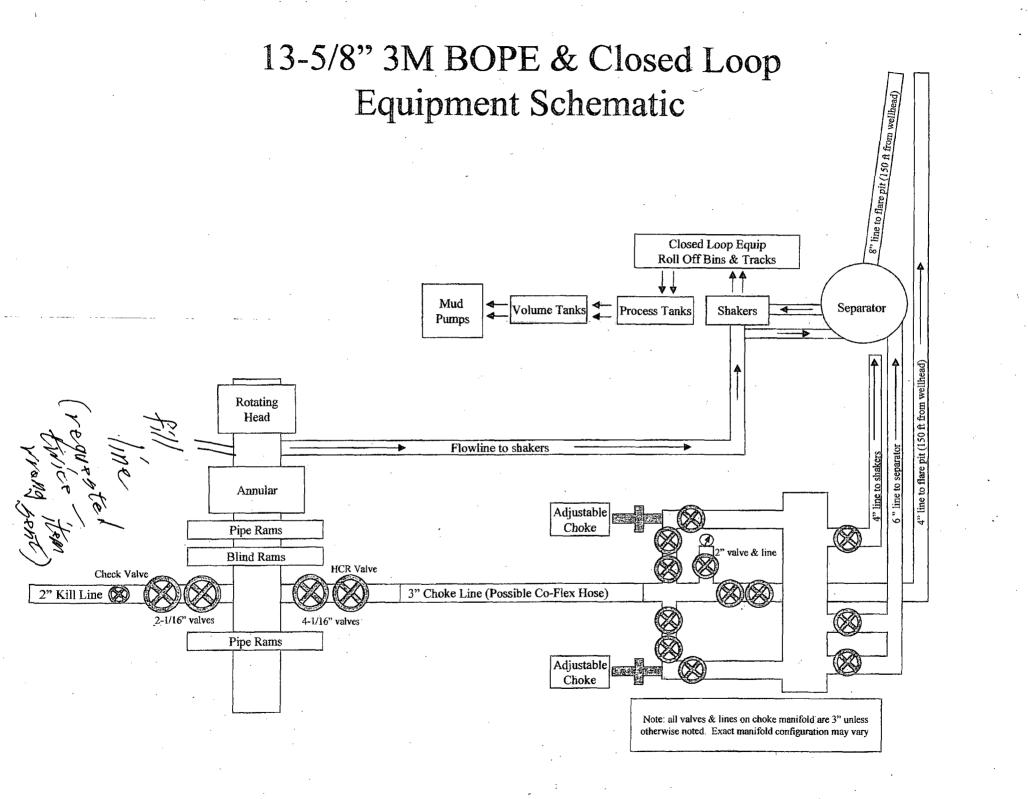
Checked By:

Approved By:

Date:

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NOTES REGARDING BLOWOUT PREVENTERS Devon Energy Production Company, LP Cerf 10 Fed 3H

Surface Location: 1270' FNL & 300' FEL, Unit A, Sec 9 T21S R27E, Eddy, NM Bottom Hole Location: 1980' FNL & 340' FEL, Unit A, Sec 10 T21S R27E, Eddy, NM

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

Hydrostatic Test Certificate

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Omfinental 4 COMPLET

	: 10321	Customer Name/& Address
RIG 300		HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER
		TULSA, OK 74119
Accep	ed by/ContiTech,Beattlelinspectio	n.
	Josh Sims	*** two
Signed:	1 Al	
-		
Date:	10/27/10	
	Signed:	Signed: Josh Sims

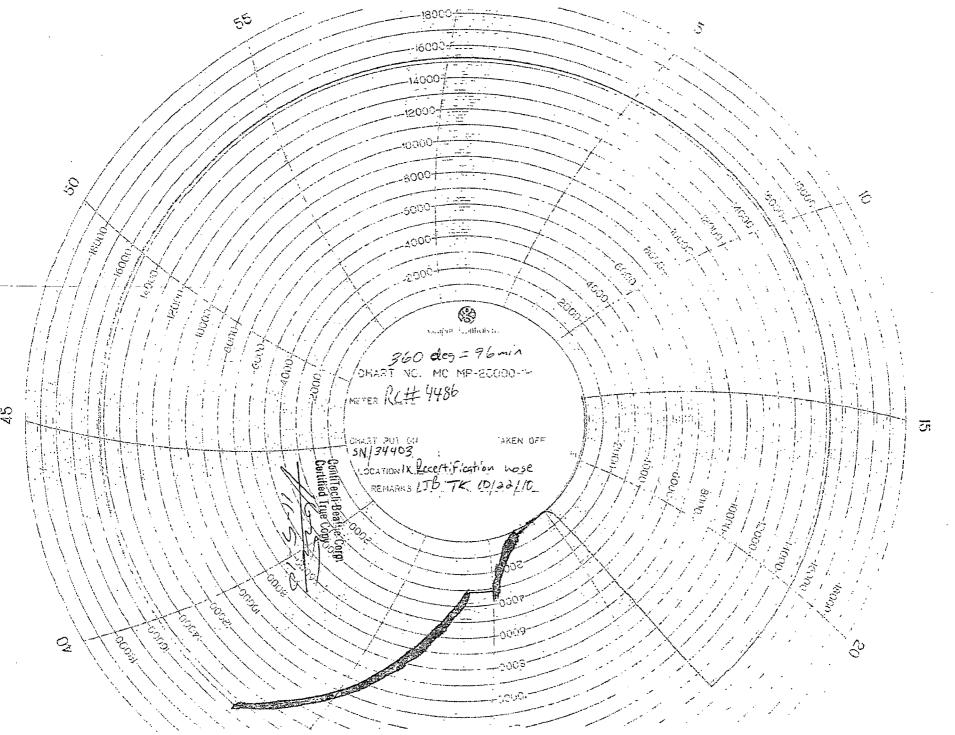
to comorni to releva standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation.

These goods were made in the United States of America.

item) Par	t No.	Onty,	Serial/	As Built Length (m) SPress	Test Press.	Test Time (minutes);
1	3" ID 10K Choke & Kill Hose x 35ft OAL	1	49106	10 kpsi	15 kpsi	60
	End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange					

١Y Working Pressure: 10,000psi Test Pressure: 15,000psi Serial#: 49106

HT4520 H&P 10321





Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

Hydrogen Sulfide (H₂S) Contingency Plan

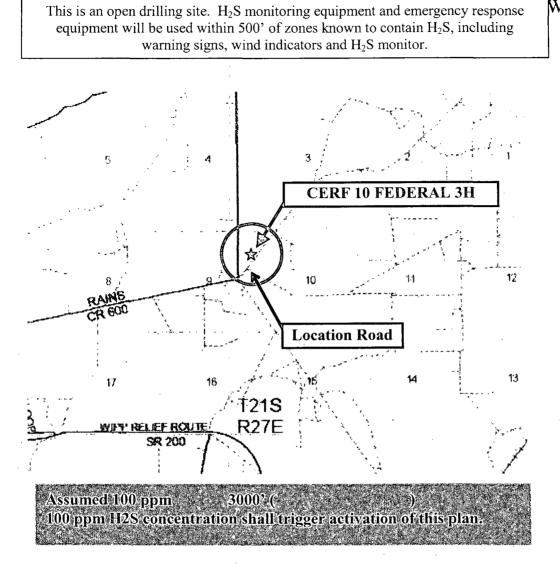
For

CERF 10 FEDERAL 3H

Sec-9, T-21S R-27E 1270' FNL & 300' FEL, LAT. = 32.4984406'N (NAD83) LONG = 104.1872549'W

Eddy County NM

Devon Energy Corp. Cont Plan. Page 1



CERF 10 FEDERAL 3H

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road, Northeast or Soutrhwest on lease road to CR600. Crews should then block both directions of the public road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in or near the ROE</u>.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

N

S

E

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - \circ Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H_2S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H_2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H_2S metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.

2. Protective equipment for essential personnel:

A. 30-minute SCBA units located in the doghouse and at briefing areas, as indicated on well site diagram. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

A. Portable H_2S monitors positioned on location for best coverage and response. These unites have warning lights and audible sirens when H_2S levels of 20 PPM are reached. These units are usually capable of detecting SO₂, which is a byproduct of burning H_2S .

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate..

5. Mud program:

A. The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H_2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephones and 2-way radio
- B. Land line (telephone) communications at Office

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Company Call List

Artesia (575)	Cellular	Office	Home
Foreman – Robert Bell	748-7448	748-0178	746-2991
Asst. Foreman –Tommy Pol			
Don Mayberry			
Montral Walker			
Engineer – Marcos Ortiz	(405) 317-0666	(405) 552-8152	(405) 381-4350

Agency Call List

<u>Lea</u>	Hobbs	
<u>County</u>	State Police	
<u>(575)</u>	City Police	
	Sheriff's Office	
	Ambulance	
	Fire Department	
•	LEPC (Local Emergency Planning Committee)	
	NMOCD	
•	US Bureau of Land Management	
<u>Eddy</u>	Carlsbad	
<u>County</u>	State Police	
<u>(575)</u>	City Police	
	Sheriff's Office	
	Ambulance	
	Fire Department	
	LEPC (Local Emergency Planning Committee)	
	US Bureau of Land Management	
	New Mexico Emergency Response Commission (Santa	
	24 HR	

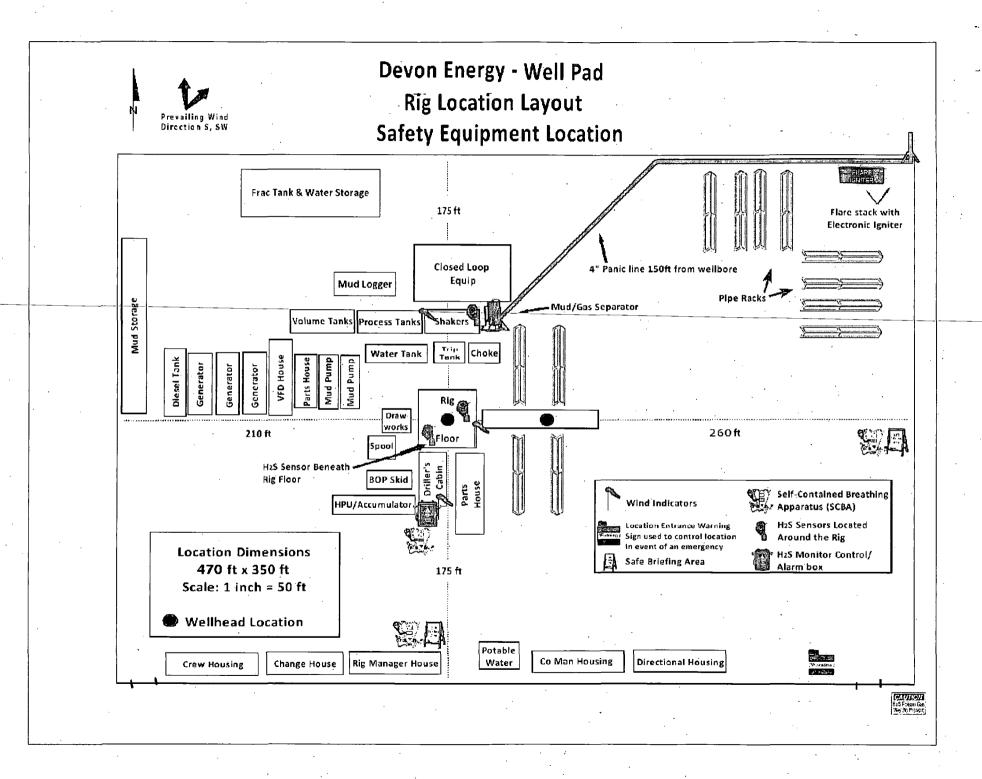
Emergency Services

	Emergency Services	
	Boots & Coots IWC	
	Cudd Pressure Control	
Give	Flight For Life - Lubboc	k, TX(806) 743-9911
GPS	Aerocare - Lubbock, TX	
position:	Med Flight Air Amb - A	lbuquerque, NM
-	e	c. Albuquerque, NM

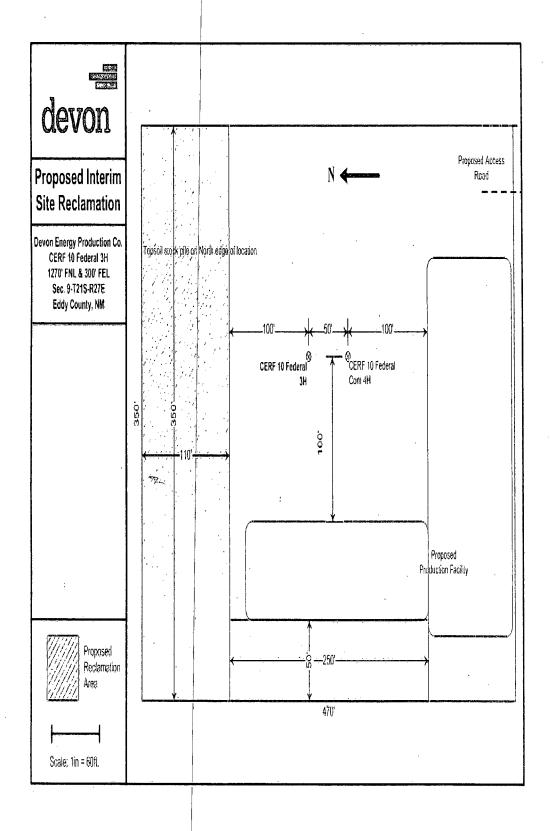
National Emergency Response Center (Washington, DC) ... (800) 424-8802

Prepared in conjunction with Wade Rohloff





Devon Energy Corp. Cont Plan. Page 8



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY PRODUCTION COMPANY L.P.
LEASE NO.:	NM14768
WELL NAME & NO.:	CERF 10 FEDERAL -3H
SURFACE HOLE FOOTAGE:	1270'/N & 300'/E
BOTTOM HOLE FOOTAGE	660'/N & 330'/E (SEC. 10)
LOCATION:	SEC.9-T21S-R27E
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions Permit Expiration Archaeology, Paleontology, and Historical Sites **Noxious Weeds** Special Requirements - Cave/Karst **Construction** Notification Topsoil Closed Loop System Federal Mineral Material Pits Well Pads Roads **Road Section Diagram Drilling** High Cave/Karst Logging Requirements Waste Material and Fluids **Production (Post Drilling)** Well Structures & Facilities Pipelines - not requested Electric Lines – not requested **Interim Reclamation** Final Abandonment & Reclamation