## OCID Hobebs

16-744

Form 3160-3 (March 2012)	UNITED STAT DEPARTMENT OF TH BUREAU OF LAND M ATION FOR PERMIT T	TES E INTERIOR IANAGEMENT	JUL E	2016 Expires 5. Lease Serial No. BHL: NMLC061863	M APPROVED No. 1004-0137 October 31, 2014 A / SHL: NMLC061873 e or Tribe Name
la. Type of work:	LL REE	ENTER		7. If Unit or CA Ag	reement, Name and No.
lb. Type of Well: Voil V	Vell Gas Well Other	Single Zon	e Multiple Zo	8. Lease Name and Cotton Draw Unit 3	
2 Name of Operator	Energy Production Compan			9. API Well No.	
3a. Address 333 West She	eridan Avenue ty, OK 73102-5010	3b. Phone No. (include 405-552-6558	,	10. Field and Pool, or WC-025 G-06 S25.	79910
4. Location of Well (Report loc At surface Unit O, 715' F	cation clearly and in accordance wit	2: 640' FSL, 660' FEL	CATION	11. Sec., T. R. M. or Sec. 7-T25S-R32E	Blk. and Survey or Area
14. Distance in miles and direction Approximately 21.5 miles	n from nearest town or post office*			12. County or Parish Lea	13. State NM
<ol> <li>Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit lin</li> </ol>	See attached map	16. No. of acres in le SHL: 319.730 Acres BHL: 1882.600 Acre		Spacing Unit dedicated to this 160 Acres	
<ol> <li>Distance from proposed locati to nearest well, drilling, comp applied for, on this lease, ft.</li> </ol>	ion* oleted, See attached map	19. Proposed Depth 12,976' MD / 8630'		BLM/BIA Bond No. on file CO-1104	
<ol> <li>Elevations (Show whether E 3431.4' GL</li> <li>The following, completed in accord.</li> <li>Well plat certified by a register</li> </ol>	rdance with the requirements of Or	4. Bo	s o.1, must be attache ond to cover the op	23. Estimated durati 45 Days d to this form:	
3431.4' GL The following, completed in accor 1. Well plat certified by a registe 2. A Drilling Plan. 3. A Surface Use Plan (if the lo	rdance with the requirements of Or	2017 24. Attachments nshore Oil and Gas Order No stem Lands, the 5. Op b. 6. Si	s o.1, must be attache ond to cover the op m 20 above). perator certification uch other site speci LM.	45 Days d to this form: erations unless covered by a	an existing bond on file (see as may be required by the Date Revised
3431.4' GL The following, completed in accor 1. Well plat certified by a registe 2. A Drilling Plan. 3. A Surface Use Plan (if the lo SUPO must be filed with the a	rdance with the requirements of Or red surveyor. ocation is on National Forest Sys	2017 24. Attachments nshore Oil and Gas Order No stem Lands, the b. 4. Bo Ite 5. Op 6. Si B	s o.1, must be attache ond to cover the op mm 20 above). berator certification uch other site specie LM. /Typed)	45 Days d to this form: werations unless covered by a	an existing bond on file (see as may be required by the
3431.4' GL The following, completed in accor 1. Well plat certified by a registe 2. A Drilling Plan. 3. A Surface Use Plan (if the lo SUPO must be filed with the according 25. Signature Title Regulatory Compliance	rdance with the requirements of Or red surveyor. ocation is on National Forest Sys appropriate Forest Service Office)	2017 24. Attachments nshore Oil and Gas Order Not stem Lands, the 5. Of 6. Si Name (Printed Linda Good	s o.1, must be attache ond to cover the op m 20 above). perator certification uch other site speci LM. // <i>Typed</i> )	45 Days d to this form: werations unless covered by a	an existing bond on file (see as may be required by the Date Revised 4/29/2016
3431.4' GL         The following, completed in accord         1. Well plat certified by a register         2. A Drilling Plan.         3. A Surface Use Plan (if the log SUPO must be filed with the standard support of the standard support support of the standard support of the standard support support o	rdance with the requirements of Or red surveyor. ocation is on National Forest Sys appropriate Forest Service Office)	2017 24. Attachments nshore Oil and Gas Order Not stem Lands, the Name (Printed Name (Printed)	s o.1, must be attache ond to cover the op m 20 above). perator certification uch other site speci LM. // <i>Typed</i> )	45 Days d to this form: werations unless covered by a	an existing bond on file (see as may be required by the Date Revised
3431.4' GL The following, completed in accor 1. Well plat certified by a registe 2. A Drilling Plan. 3. A Surface Use Plan (if the lo SUPO must be filed with the according 25. Signature Title Regulatory Compliance Approved by (Signature) Jame	rdance with the requirements of Or red surveyor. ocation is on National Forest Sys appropriate Forest Service Office)	2017 24. Attachments nshore Oil and Gas Order Not stem Lands, the 5. Of 6. Si Name (Printed Linda Good	s o.1, must be attache ond to cover the op m 20 above). beerator certification uch other site speci LM. (Typed)	45 Days d to this form: werations unless covered by a	an existing bond on file (see as may be required by the Date Revised 4/29/2016 Date JUN 2 2
3431.4' GL         The following, completed in accord         1. Well plat certified by a register         2 A Drilling Plan.         3. A Surface Use Plan (if the log SUPO must be filed with the strength of the support of	rdance with the requirements of Or red surveyor. Decation is on National Forest Sys appropriate Forest Service Office)	2017 24. Attachments ashore Oil and Gas Order Not stem Lands, the Name (Printed Diffice holds legal or equitable title	s o. 1, must be attache ond to cover the op m 20 above). serator certification uch other site specif LM. (Typed) (Typed) cA e to those rights in t	45 Days d to this form: merations unless covered by a fic information and/or plans a MRLSBAD FIELD OF he subject lease which would	an existing bond on file (see as may be required by the Date Revised 4/29/2016 Date JUN 2 2 2
3431.4' GL         The following, completed in accord         1. Well plat certified by a register         2. A Drilling Plan.         3. A Surface Use Plan (if the loc SUPO must be filed with the accord by Completed with the accord by Completed with the accord by (Signature)         Title         Regulatory Compliance         Approved by (Signature)         Jamee         Title         Approved by (Signature)         Jamee         Title         Field         Application approval does not we conduct operations thereon.         Conditions of approval, if any, ar         Title 18 U.S.C. Section 1001 and Tit States any false, fictitious or fraudomed operations of approval.	Indance with the requirements of Or red surveyor. Docation is on National Forest Sys appropriate Forest Service Office)	2017 24. Attachments nshore Oil and Gas Order Not stem Lands, the Name (Printed Linda Good Name (Printed Office	s o. 1, must be attache ond to cover the op m 20 above). perator certification uch other site specir LM. (Typed) (Typed) CA e to those rights in the OCD	45 Days d to this form: merations unless covered by a fic information and/or plans a fic information a fic	an existing bond on file (see as may be required by the Date Revised 4/29/2016 Date JUN 2 2 2 FICE dentitle the applicant to L FOR TWO Y t or agency of the United
3431.4' GL         The following, completed in accord         1. Well plat certified by a register         2. A Drilling Plan.         3. A Surface Use Plan (if the log SUPO must be filed with the state of the support of t	rdance with the requirements of Or red surveyor. Docation is on National Forest Sys appropriate Forest Service Office)	2017 24. Attachments ashore Oil and Gas Order Not item Lands, the Name (Printed Office holds legal or equitable titl e attached NMO	s o. 1, must be attache ond to cover the op m 20 above). perator certification uch other site specir LM. (Typed) (Typed) CA e to those rights in the OCD	45 Days d to this form: merations unless covered by a fic information and/or plans a fic information a fic	an existing bond on file (see as may be required by the Date Revised 4/29/2016 Date JUN 2 2 2 FICE dentifie the applicant to L FOR TWO Y
3431.4' GL         The following, completed in accord         1. Well plat certified by a register         2. A Drilling Plan.         3. A Surface Use Plan (if the loc SUPO must be filed with the state of the support of t	rdance with the requirements of Or red surveyor. Decation is on National Forest Sys appropriate Forest Service Office) USAA e Specialist <b>IS A. AMOS</b> <b>D MANAGER</b> arrant or certify that the applicant re attached. the 43 U.S.C Se hulent stater Cor (313H/31	2017 24. Attachments ashore Oil and Gas Order Not item Lands, the Name (Printed Office holds legal or equitable titl e attached NMO	s o. 1, must be attache ond to cover the op m 20 above). perator certification uch other site specir LM. (Typed) (Typed) (Typed) cA e to those rights in the OCD Dval	45 Days d to this form: merations unless covered by a fic information and/or plans a fic information a fic	an existing bond on file (see as may be required by the Date Revised 4/29/2016 Date JUN 2 2 2 FICE dentitle the applicant to L FOR TWO Y t or agency of the United
3431.4' GL         The following, completed in accord         1. Well plat certified by a register         2. A Drilling Plan.         3. A Surface Use Plan (if the log SUPO must be filed with the strength of Supon must be strengt of Supon must be strength of Supon must be	rdance with the requirements of Or red surveyor. Decision is on National Forest Sys appropriate Forest Service Office) UMADA e Specialist <b>IS A. Arnos</b> DMANAGER arrant or certify that the applicant re attached. the 43 U.S.C lulent stater Cor (313H/31 Water Dasm	2017 24. Attachments ashore Oil and Gas Order Not the stem Lands, the 5. Or the stem Lands, the 7. Of the stem Lands, the 7. Of the stem Lands, the 7. Of the stem Lands of Constraints Name (Printed Linda Good Name (Printed Office holds legal or equitable title e attached NMO nditions of Approx	s o. 1, must be attache ond to cover the op m 20 above). perator certification uch other site specir LM. (Typed) (Typed) (Typed) cA e to those rights in the OCD Dval	45 Days d to this form: merations unless covered by a fic information and/or plans of fic information and/or plans of fic information and/or plans of fic information and/or plans of fic information and/or plans of fic info	an existing bond on file (see as may be required by the Date Revised 4/29/2016 Date JUN 2 2 2 FICE dentitle the applicant to L FOR TWO Y t or agency of the United

### 1. Geologic Formations

TVD of target	8,630'	Pilot hole depth	N/A
MD at TD:	12,976'	Deepest expected fresh water:	

## Basin

675 1,050 4,195 4,435		
4,195		
· · · · · · · · · · · · · · · · · · ·		
4,435		
4,472		
5,295		
6,705		
8,135		
8,350		
8,465		
8,865		
9,102		
9,410		
9,625		
10,035		
10,135		
10,467		
10,560		
11,765		
	6,705           8,135           8,350           8,465           8,865           9,102           9,410           9,625           10,035           10,135           10,467           10,560	6,705         8,135         8,350         8,465         8,865         9,102         9,410         9,625         10,035         10,467         10,560

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

### 2. Casing Program

10000	Hole Size	Casing	Interval	Csg Size	Weight	Grade	Conn		Safety Factor	rs
Constraint of		From	То					Burst	Collapse	Tension
ſ	17 1/2	0	185 205	13 3/8	54.5	J-55	BTC	1.82	3.67	6.80
	12 1/4	0	4,300 4400 '	9 5/8	40	J-55	LTC	1.67	1.15	2.11
	8 3/4	0	12,976	5 1/2	17	P-110	BTC	1.18	1.65	2.51
					BLM M	inimum S	Safety	1.00	1.125	1.6 Dry
					Factor					1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
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 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
s 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?	

Casing	# Sks	Wt. lb/ gal	H <sub>2</sub> 0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surf	760	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	900	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2"	350	9	15.64	3.56	25	Lead: Tuned Light <sup>®</sup> Cement
Prod Single Stage	1300	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
	520	11.9	12.89	2.31	n/a	1 <sup>st</sup> Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
5-1/2" Prod	1300	14.5	5.31	1.2	25	1 <sup>st</sup> Stage 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
Two					D	/ Tool = 4350ft
Stage	20	11	14.81	2.55	22	2 <sup>nd</sup> Stage Lead: Tuned Light <sup>®</sup> Cement + 0.125 lb/sk Pol-E-Flake
	30	14.8	6.32	1.33	6	2 <sup>nd</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake

#### 3. Cementing Program

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing Single Stage Option	4100'	25%
5-1/2" Production Casing Two Stage Option	1 <sup>St</sup> Stage = 4350' / 2 <sup>nd</sup> Stage = 4100'	25%

## 4. Pressure Control Equipment - See COA

N	A variance is requested for the use of a diverter on the surface casing.	See attached for
IN	schematic.	

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	-	Tested to:
			An	nular	x	50% of working pressure
			Bline	d Ram		
12-1/4"	13-5/8"	3M	Pipe	Ram		3M
			Doub	le Ram	x	3111
			Other*			
			An	nular	X	50% testing pressure
			Blind	d Ram		
8-3/4"	12 5/07	3M	Pipe Ram			
0-3/4	13-5/8"	3111	Double Ram		X	3M
			Other *			
			Anı	nular		
			Blind	l Ram		
			Pipe	Ram		
			Doub	le 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 Manifold. See attached for specs and hydrostatic test chart. Y Are anchors required by manufacturer?

Y

4 **Drilling Plan**  A multibowl wellhead may be 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. 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 wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company 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 3M, 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 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.

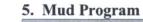
After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead.

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's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.

SEE COA

See attached schematic.



500.	5. Mud Program									
Jee	Depth		Туре	Weight (ppg)	Viscosity	Water Loss				
Ca.	From	To ,	The second	Statement and the state						
	0	705' 785	FW Gel	8.6-8.8	28-34	N/C				
785	705'	4,300'4400	Saturated Brine	10.0-10.2	28-34	N/C				
4400	4,300	12,976'	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 - See COM

Log	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

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4173 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM. N H2S is present

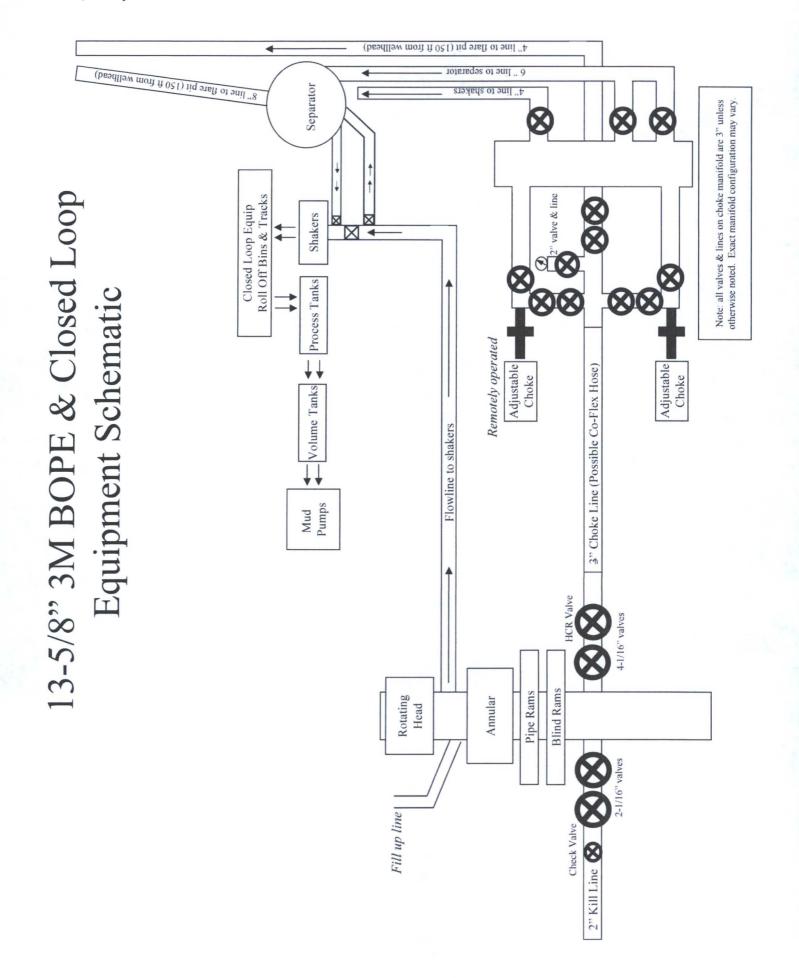
Y H2S Plan attached

#### 8. Other facets of operation

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

Attachments <u>x</u> Directional Plan Other, describe

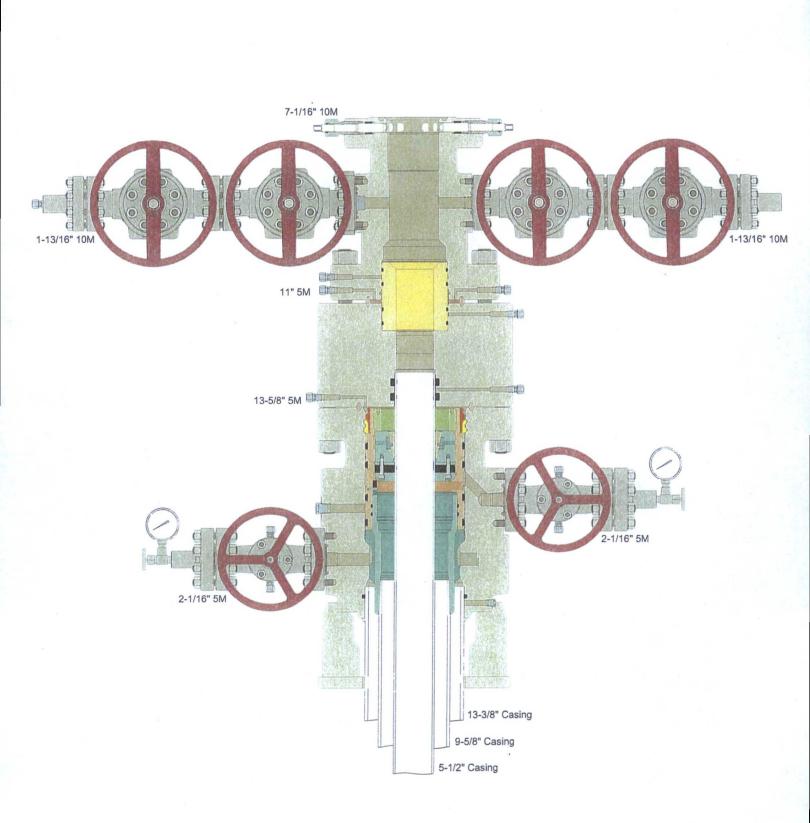
> 7 Drilling Plan



#### NOTES REGARDING BLOWOUT PREVENTERS

#### Devon Energy Production Company, L.P. COTTON DRAW UNIT 327H

- 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 filings will be in operable condition to withstand a minimum of 3000psi working pressure.
- 4. All fittings will be flanged.
- 5. A fill bore safety valve tested to a minimum of 3000psi 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.
- 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.



.

3