Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMEN BUREAU OI	TED STATES T OF THE INTE		side)	50 025 31852 Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO. NM-2379 6. IF INDIAN, ALLOTTED OF TRIBE NAME		
APPLICATION	N FOR PERMIT	BACK	O. IS INDIAN, ALLOTTES OF TRIBE RAND				
DRI	LL 🛛	DEEPEN	7. UNIT AGREEMENT NAME				
			INGLE DE BULT ONE DONE		S. FARM OR LEASE NAME		
2. REAL OF CLERICE	POGO PR	ODUCING COMPANY			COVINGTON "A" FEDERAL 9. WELL NO.		
3. ADDRESS OF OPERATOR		· · · · · · · · · · · · · · · · · · ·		<u> </u>	17		
4. LOCATION OF WELL (B	P.U. BU eport location clearly an	X 10340, MIDLA	ND, IEXAS /9/U. State requirements.*)	2	10. FIELD AND FOOL, OF WILDCAT UNDES RED TANK BONE SPRINGS		
At surface 71. Nor 14 At proposed prod. son	2080' F	NL AND 660' FEL	OF SECTION 26		11. SEC., T., R., M., OE ELK. AND SURVEY OR AREA		
14. DISTANCE IN MILES	ND DIRECTION FROM NE	AREST TOWN OR POST OFFIC		SEC. 26, T. 22 S., R. 32 12. COUNTY OF PARISH 18. STATE			
		S WEST OF EUNIC			LEA COUNTY NEW MEXICO		
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	SED*		0. OF ACRES IN LEASE 1280		PT ACRES ASSIGNED HIS WELL 4()		
18. DISTANCE FROM FROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING. COMPLETED.		BOPOSED DEPTH		ARY OR CABLE TOOLS		
21. ELEVATIONS (Show who		1220'	10,200'	<u> </u>	ROTARY 22. APPROX. DATE WORK WILL START*		
		3753.4 GR			UPON APPROVAL		
3.		PROPOSED CASING AN	D CEMENTING PROGR	АМ	· · · · · · · · · · · · · · · · · · ·		
SIZE OF HOLE	BIZE OF CABING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
<u> </u>	<u>13-3/8"</u> 8-5/8"	<u>54.5#</u>	<u>850'</u> 4750'		CIENT TO CIRCULATE		
7-7/8"	5-1/2"	17#	10,200'	TO TI			
	AND STIMULAT	G PRODUCTION CA ED AS NECESSARY FOR: SUPPLEMEN BOP SKETC SURFACE U	TAL DRILLING D	ATA	WREAU OF LAND MAN		
ABOVE SPACE DESCRIBE DEC. If proposal is to reventer program. If ago BIGKED	irill or deepen direction	ally, give pertinent data	plug back, give data on on subsurface locations ivision Operat	and measure	ductive zone and proposed new productive ed and true vertical depths. Give blowout pr. DATE November 25, 199		
(This space for Feder	al or State office use)						
PERMIT KO		. ;	APPROVAL DATE		, , , , / 4, ,		
APPROVED BY APPROVAL SUBJECT GENERAL REQUIREM SPECIAL STIPULATION	to Ients <u>and</u>	*Cas Instructions	: On Reverse Side		DATE 12-14 92		

.

.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

JAN 0 8 1993

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088 Santa Fe. New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

All Distances must be from the outer boundaries of the section

POICE PRODUCING CO. CONNECTOR X FILLION Interminant 1 26 Tornakity 32 EAST Norm UEA 2000 red from the MORTH Name 32 EAST Norm UEA 2000 red from the MORTH Name 660 free from the EAST Uname 2000 red from the SPRINGS Pool UNDES. RED TANK BONE SPRINGS 40 Acres 3753.4* Tradicities Formation Pool UNDES. RED TANK BONE SPRINGS 40 Acres 1. Outlins the areage deficated to the will, will schered people to the plat balar. 5. If more than one lease id deficited to the well, will schered to the set of the formation consolidated (by communitication, forced-pooling, to an other set defacting to the set of the set	Operator							Lease						<u> </u>	Well No.
Here 26 22 SOUTH 32 EAST NOPM LEA 2080 refer from the month three the month three the set of the three the month three thr	POGO PRODUCING CO.							COVING	TON T	A" FEDE	RAL		17		
Attend Poolage Golden of Walt 222 000011 Determined for the second of Walt Determined for the second for the s	Unit Letter	Secti	on	T		-		Range	r	70				County	1 5 4
2080 fact tran the Ground level face NORTH Producing Formation BONE SPRINGS Feed UNDES. RED TANK BONE SPRINGS Line Halfered Arreget: 40 Acres 1. Outline the acress dideted to the subject will by colored pendl or haching match as been on the plat below. Acres Acres 2. If more than one lease is addicated to the subject will by colored pendl or haching match interest and royalty). Acres Acres 3. If more than one lease is didicated to the subject will be didacted to the subject will be accessible to unitation, force-pooling, etc.? If anover is "ye" type of coaselidation If anover is "no" if a cover is "ye" type of coaselidation Otherwise) or until a non-standard unit, clining such interest, has been approved by the Division. Origonal for the subject will be assigned to the will interest have been coaselidated (by communitization, forced-pooling, cherwise) or until a non-standard unit, clining such interest, has been approved by the Division. Origonal for the subject will be assigned to the will interest have been coaselidated (by communitization, forced-pooling, cherwise) or until a non-standard unit, clining such interest, has been approved by the Division. Origonal for the subject will be assigned to the well, and the subject will be assigned to the subject to the bast of methods the subject will be assigned to the subjec						22 SO				32	EASI	NM	PM	<u> </u>	
2000 freet form at an intervention of the second term at a seco		ation		NODT	- 1				660					FAS	T une
Cerear Level Ear. Producting references on the plate balance. BORE SPRINGS UNDES. RED TANK BONE SPRINGS 40 Acres 3753.4 Dotting the arrange dedicated to the well, outline each and identify the ormarking in terrest and royalty). It more than one lease of different ormerwhip is dedicated to the well, outline each and identify the ormarking interest and royalty). It more than one lease of different ormerwhip is dedicated to the well, bare the interest of all enteres been consolidated by communitation, unittration, forced-pooling, etc.? Yes No allowable rule assigned to the well unit all interests have been consolidated (Use reverse side of the form material or unit a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hardy certify that is a information of the start or material and the descriptions which have actually been consolidated (by communitation, unitration, forced-pooling, otherwise) or unit a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hardy certify that is a information of the start of material interest of all certes and the descriptions which have actually been consolidated. Use of my homelage and addition of my homelage and addition I hardy certifications. Division Operations Supp. Division Operations and the description of my homelage and addition I hardy certification unit individe and well is of my homelage and addition I hardy certification and the addition I hardy certification and the addition I hardy certification I hardy						line and			000			feet fr	om	the Dw	and the second se
3/3.4 Unite a consequence of the evolution of the plant below. 10 outline the acreage dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease is dedicated to the well, have the interest of all owners been consolidated by communitization, force pooling, to:? 10 Yos No If answer is 'no' list of owners and tract descriptions which have actually been consolidated. (Use reverse ride of this form increases). No allowable will be assigned to the well unit all interest have been accordinated. (Use reverse ride of this form increases). No allowable will be assigned to the well unit all interest have been accordinated (by communitization, force-pooling, force-pooling, to:? No allowable will be assigned to the well unit all interest have been accordinated (by communitization, force-pooling, force-pooling, to:? No allowable will be assigned to the well unit all interest have been accordinated (by communitization, forced-pooling, otherwase) or unit a con-inteder unit, eliminating such interest, has been approved by the Division Operations Suppr. November 19, 1992 SURVEYOR CERTIFICATION // Anny origin of the send or other well will be associated with a send or plate of the interest of the send of the s		·	Producing			SDDIN	64	E E	DES	RFD	TANK	BONE S	PR]	INGS	10
 2. If more than one lease is dedicated to the well, outline such and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization. Information, force-pooling, etc.? 4. If more than one lease of different ownership is dedicated to the well, have actually been consolidated. (Use reverse die of this form necessary. No allowable will be assigned to the well unit all interests have been consolidated. (Use reverse die of this form necessary. No allowable will be assigned to the well unit all interest have been approved by the Division. Unitation, force-pooling, otherwise) or unit a non-standard unit, eliminating such interest have been approved by the Division. OPERATOR CERTIFICATION is the information of the informati	3/53.4														<u></u>
If more than one lease of different ownership is dedicated to the well, have the interest of all owners ben consolidation															
utilization, force-pooling, etc.? If sarver is 'no' list of owners and tract descriptions which have setually been consolidated. (Use reverse side of the setup o	2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).														
Yes In answer is 'roe' type of consolidation If surver is 'no' list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary	3. If more than	one]	ease of d	lifferen	t owne	ership is	dedicate	d to the w	rell, ha	we the	interest	of all own	aers	been conso	lidated by communitization,
If surver is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. otherwise) or until a non-standard unit, eliminating moh interest, has been approved by the Division. The surver is a non-standard unit, eliminating moh interest, has been approved by the Division of the surver is a non-standard unit, eliminating moh interest, has been approved by the Division I barely certify that has be identicated by the interest of my howeldge and belies to the Division Operations Supr. Company Protocol for the surver of my howeldge and belies of November 19, 1992 SURVEYOR CERTIFICATION I barely certify that has and complete to the November 19, 1992 SURVEYOR CERTIFICATION I barely certify that has and complete on the November 19, 1992 SURVEYOR CERTIFICATION I barely certify that has and complete on the November 19, 1992 SURVEYOR CERTIFICATION I barely certify that has and complete on the November 19, 1992 SURVEYOR CERTIFICATION I barely certify that has and complete on the November 19, 1992 SURVEYOR CERTIFICATION I barely certify that has and complete on the November 19, 1992 Survey on the survey of my how the survey of the survey of my how the survey of my how the survey of November 19, 1992 Survey of the survey of my how the survey of November 19, 1992 Survey of the survey of my how the survey of November 19, 1992 Survey of the survey of my how the survey of the survey of November 19, 1992 Survey of the survey of my how the survey of the survey of November 19, 1992 Survey of the survey of the survey of the survey of the survey of November 19, 1992 Survey of the survey of November 19, 1992 Survey of the survey of the survey of the survey of the survey of November 19, 1992 Survey of the survey of November 19, 1992 Survey of the survey of the su		orce-			••		** 6		alidati						
this form necessary. No allowable vill be assigned to the well unit all interests have been consolidated (by communitistion, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION / Mereby certify that the information is the information of the set of any browledge and belief. Signature 4 Seal of Proceeding the set of the set of any browledge and belief. Signature 4 Seal of Proceeding the set of the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and set of any browledge and belief. Signature 4 Seal of Proceeding the set of any browledge and set of any browledge and belief. Signature 4 Seal of Signature 4 Seal of Proceeding the set of any browledge and set of any browledge and belief. Signature 4 Seal of Signature 4 S												+			
No allowable will be assigned to the well unit all interests have been consolidated (by de Division. cherrise) or uniti a non-standard unit, eliminating much interest, has been approved by the Division. OPERATOR CERTIFICATION 1 Moreby certify that the information contained herein is the information co	ſ.														
otherwise) or until a non-standard unit, eliminating wich interes, All Deen approved by the Unit of the set of any isometice and complete to the best of any isometice and basis. Is the and complete to the best of any isometice and basis. Is the and complete to the best of any isometice and basis. Is the and complete to the best of any isometice and basis. Is the analysis of the set of any isometice and basis. It is the analysis of the set of any isometice and basis. Is the analysis of the set of any isometice and basis. It is the analysis of the set of any isometice and basis. It is the set of any isometice and basis of any isometice and complete to the basis areas and the set of any isometice and the s		-11	assigne	d to t	the we	ll unit	all inter	ests have	e been	CODSO	lidated	(by comn	nun	itization, u	nitization, forced-pooling.
Arrety certify that the information Constant in the model complete to the Constant in the model complete to the Constant of the information in the model Constant of the information in the model Signature of the information in the infor	otherwise) or u	ntil a	non-sta	ndard	unit,	elimina	ting such	h interest	has	been ap	proved	by the Di	visio	DD	
Second and herein in proceeding and herein in							<u>, </u>		<u></u>	1			1	OPERA	TOR CERTIFICATION
bert of my two-relative and belief. Signatury Primed Name Richard L. Wright Primed Name Richard L. Wright Poision Division Operations Supr. Company POGO PRODUCING COMPANY Date November 19, 1992 SURVEYOR CERTIFICATION 1 Arrey and by ne or under my supervises and ball woods for my deal notes of arrest to the best of my broukday and bild Date Surveyed OCTOBER 1, 1992 Surveyed OCTOBER 1, 1992 Surveyed OCTOBER 1, 1992 Surveyed Company Professional Surveyer Company Company Professional Surveyer Company Professional Surveyer Professional Surveyer Professi			Ì								Ī				
Signature Signature			I										1 1		
8 3739.5 3749.0 9 900 13739.5 3749.0 0 660° 100 900 13745.5 3744.6 100 100 100 500 100 100 100 500 100 100 100 500 100 500 100 100 100 500 100 500 100 500 100 100 100 500 100 100			l T							Ì				//////////////////////////////////////	
Richard L. Wright Preside Division Operations Supr. 2739.5'			l							1				Signature	101111
Richard L. Wright Preside Division Operations Supr. 2739.5'			1							1	1			-KIG	and L. Chilt
Richard L. Wright Preside Division Operations Supr. 2739.5'			ļ							1	508			-	
3739.5'										 					ard L. Wright
3739.5' 3749.0' Origony Date November 19, 1992 SURVEYOR CERTIFICATION I hereby cartly that the usell location shown on the plat toos plotted from field noise of actual serveys made by me or under my supervision and that the same is irrue and correct to the best of my knowledge and beild. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Corriginate No. 2004 M. Nor. 576 Corriginate No. 2005 M. Nor. 576 Corr			-+-				+								Our such that a Course
3739.5' 3749.0' OGO PRODUCING COMPANY Date November 19, 1992 SURVEYOR CERTIFICATION I Arreby cortify that the uset location shown on this plat was plotted from field notes of actual serving made by me or under my supportions and that the same is true and correct to the best of my knowledge and beild? Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Certificate to										5					on operations Supr.
Date November 19, 1992 SURVEYOR CERTIFICATION I hereby cortify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and the set of my knowledge and beitaf. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Certificate No. North Street Contact and Surveys Signature & Seal of Professional Surveyor Certificate No. North Street Contact No. North Street Survey Street Survey Street Survey Street Survey Survey Street Survey Street Su			1							₽ ∎ 3739	9.5'	3749.0'			DODUCTNG COMPANY
3745.5' 3744.6' SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and beild. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Control State No. John M. Wight. 676 ROMAN STATE. 776 ROMAN STATE. 776 ROMAN STATE. 776 ROMAN STATE. 777 ROMAN STATE			1							P		- 1	╿┟		
SURVETOR CERTIFICATION I hereby certify that the well location shoun on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belaf. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Cortificate No. John W. wefst. 676 ROMAND & FIDON. 3230 Cortificate No. John W. wefst. 676 ROMAND & FIDON. 3230 Control true comes. 7977			1							l.	- ÷	■+660' -=		No	vember 19, 1992
SURVETOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supprvision, and that the same is true and correct to the best of my knowledge and beild. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Cortificate No. John N. Weff. 676 ROMACO, 1000, 1000, 500 Cortificate No. John N. Weff. 676 ROMACO, 1000, 3220 Cortificate No. John N. Weff. 676 ROMACO, 1000, 3220 Cortificate No. John N. Weff. 676 ROMACO, 1000, 3200 Cortificate No. John N. Weff. 676 ROMACO, 1000, 3220 Cortificate No. John N. Weff. 777 Cortificate No. John N. Weff. 776 Cortificate No. John N. Weff. 777 Cortificate No. John No. John N. Weff. 777 Cortificate No. John No. Jo			1				1			374	5.57	_J 3744.6'	¶ F		
on this plat was plotted from field notes of attud surveys made by me or under my supervision, and that the same is true and beiligt. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Cortificate No. North With 076 ROMAD 1 SURVEY. Cortificate No. North 1 SURVEY. SURVEY. SURVEY. SURVEY. Cortificate No. North 1 SURVEY. S										5				SURVE	YOR CERTIFICATION
actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and beigt. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Certificate No. JOHN M. WEST. 070 ROMMO (FigSon, 3230 Certificate No. JOHN M. WEST. 070 ROMMO (FigSon, 3230 Certificate No. JOHN M. WEST. 070							┼───	<u> </u>				<u>, 110, 1100, 1</u> 00		I hereby cer	tify that the well location shown
supervison, and that the same is true and correct to the best of my knowledge and belig. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Survayor Continues Survayor Continues No. John M. With 676 ROMAN & EDSON, 3230 Continues Tello 2000, 1500, 1000, 500, 0 02									/						
ourrest to the best of my knowledge and beiligt. Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Reveal of the best of my knowledge and ourrest to the best of my knowledge and Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Certificate No. John M. Wigst. 876 Ronaud 1 FigSon, 328 Certificate No. John J. 2000, 1500, 1000, 500, 0 Q2=4 + 1405			i										1		
Date Surveyed OCTOBER 1, 1992 Signature & Seal of Professional Surveyor										1					
OCTOBER 1, 1992 Signature & Seal of Professional Surveyor Cortificate No. JOHN W. WET. 076 RONALD 1 EUSON 3239 Cortificate No. JOHN W. WET. 076 RONALD 1 EUSON 3239 Cortificate No. JOHN W. WET. 076 RONALD 1 EUSON 3239 Cortificate No. JOHN W. WET. 076 RONALD 1 EUSON 3239			i							Ì				belief.	
Signature & Seal of Professional Surveyor Review of the seal of Professional Surveyor Certificate No. John W. WEST. 876 ROMARD 1 Elision, 3239 Certificate No. John W. WEST. 876 ROMARD 1 Elision, 3239 Commission 1000 500 9			1							i					
Professional Surveyor RY L JON RY			l I							i				00	CTOBER 1, 1992
Certificate No. JOHN W. WEST. 876 ROMALO J. EIGSON, 3239 Concentration State 2000, 1500, 1000, 500, 9 072-1-1405							L			, ∔					
Certificate No. JOHN XN. 1997. 676 ROMALO J. EIGRON, 3239 Concentrative Jones, 7977			-+-				T			1				FI GI COBION	
Certificate No. JOHN W. WIST. 676 ROMALO 1 FILISION. 3239 Concentrative Jones, 7977			1							1				ار می ایر می	
RONALD LEIDSON, 3239 CONTRACT			1							1				1 - A	
RONALD LEIDSON, 3239 CONTRACT			ļ							1				$\mathbf{v} \models f$	(AN) I
RONALD LEIDSON, 3239 CONTRACT														A mile	1 LE Kohis
RONALD LEIDSON, 3239 CONTRACT															No IOHN HI MORT ATA
CICION BARY UP JONES, 7977							1			ļ				Cerunce u	
370 560 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0 92-11-1405							1			 				and the second second	COPERCIONISARY IN JONES. 7977
	0 330 660		1320	1650	1980	2310 2	640	2000	1500	10	00	500	6		92-11-1405

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY COVINGTON "A" FEDERAL WELL NO.17

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	900'
Delaware Lime	4800 '
Cherry Canyon	6100'
Brushy Canyon	7400'
Bone Springs	8800'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware	0i1
Bone Springs	0i1

4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTING DE	PTH				
CASING SIZE	FROM	<u>T0</u>	WEIGHT	GRADE	JOINT_	
13-3/8"	0	850'	54.5#	J-55	STC	
8-5/8"	0 4500'	4500 ' 4750'	32# 32#	J-55 S-80	STC STC	
5-1/2"	0 1000' 6500'	1000' 6500' 10,200'	17# 17# 17#	N-80 J-55 N-80	LTC LTC LTC	
MINIMUM						

DESIGN FACTORS: COLLAPSE 1.125 BURST 1.1 TENSION 1.7

13-3/8" casing to be cemented with 500 sacks of light cement tailed in with 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

8-5/8" casing to be cemented with 1200 sacks of light cement with 10% salt tailed in with 200 sacks of premium cement with 1% CaCl. Cement to circulate.

5-1/2" production casing is to be cemented in three stages with staging





BOP STACK



BOP ARRANGEMENT