1997 - 2997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	EPARTMENT OF THE INT	ERIOR			M APPROVED NO: 1004-0135
B B	UREAU OF LAND MANAGE	MENT		Expire 5. Lease Serial No.	es: July 31, 2010
SUNDRY Do not use th	NOTICES AND REPORT his form for proposals to dr	S ON WELLS		NMNM54290	
abandoned we	all. Use form 3160-3 (APD)	for such proposals.	Contraction of the second s	5. II Indian, Allotte	e or Tribe Name
SUBMIT IN TR	IPLICATE - Other instructio	ons on reverse side.		7. If Unit or CA/Ag	reement, Name and/or No.
1: Pype of Well	ther	rens al general por some to <u>La desta de chora esta so</u> m		8. Well Name and N NORTH BRUS	ło. HY DRAW FEDERAL 35
2. Name of Operator RKI EXPLORATION & PROD	Contact: JO) LLC E-Mail: JNOERDLING	DY NOERDLINGER SER@RKIXP.COM	9). API Well No. 30-015-42290)-00-X1
3a. Address 210 PARK AVE SUITE 900 OKLAHOMA CITY, OK 7310	3 P 2	b: Phone No. (include area cod h: 405-996-0877 57	e) 74	0. Field and Pool, CORRAL CA	or Exploratory NYON
4. Location of Well (Footage, Sec., 7	T., R., M., or Survey Description)	an a		1. County or Paris	h, and State
Sec 35 T25S R29E SESW 17 32.044602 N Lat, 103.572154	75FSL 2365FWL 4 W Lon	n an		EDDY COUN	TY, NM
12. CHECK APP	ROPRIATE BOX(ES) TO I	NDICATE NATURE OF	NOTICE, REP	ORT, OR OTH	ER DATA
TYPE OF SUBMISSION		TYPEC	OF ACTION	1-4940 - 2005 - 16 A - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	<u>en anderen en e</u>
B Notice of Intent	Acidize	Deepen	Production	n (Start/Resume)	UWater Shut-Off
	Alter Casing	Fracture Treat	Reclamation	on	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplet	te	Change to Original
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporari	ly Abandon	PD
Attach the Bond under which the wo following completion of the involvec testing has been completed. Final Al determined that the site is ready for f RKI Exploration and Productio regarding casing requirements	rk will be performed or provide the d operations. If the operation results bandonment Notices shall be filed o final inspection.) on requests a name change, s for the subject well. This w	Bond No. on file with BLM/BI s in a multiple completion or rec nly after all requirements, inclu a formation change, and ell is scheduled to spud N	A. Required subsecompletion in a new completion in a new ding reclamation, h a drilling change lov. 10, 2014.	quent reports shall t v interval, a Form 3 lave been completed e NM	be filed within 30 days 160-4 shall be filed once d, and the operator has OIL CONSERVA
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Additional data for EC transaction #274736 that would not fit on the form

32. Additional remarks, continued

No 7 in intermediate casing will be run.

Hole size change: drill an 8 1/2 in curve/lateral.

A 5 1/2 in 23 lb P-110 production casing string will be run from TD to surface instead of running a 41/2 in by 5 1/2 in tapered casing string.

The proposed revised drilling plan and a revised location plat showing the new BHL are attached.

exploration & Production, LLC	•			·
and a state of the second s		ţ		
II North Brushy Draw Federal Com 35 ation Surface 175 FSI	-4H 2,365 (FWI	Sec 3	15-25S-29F	
Bottom Hole: 600 FNL	1,980 FWL	Sec 3	35-25S-29E	
ntv Eddy			- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	
e New Mexico		: :	2	
1) The elevation of the unprepared gro	ound is		2,9	97 feet above sea level.
			a dan menjadi kana seria kana seria kana se	and the second
2) The geologic name of the surface for	rmation is Quaternary - Alluvium.			
3) A rotary rig will be utilized to drill th	e well to	14,243 feet a	nd run casing and c	ement.
This equipment will then be rigged d	down and the well will be complete	d with a	-	 .x
workover rig		an a		
Workever rig.				
	Martinetic Materia	1.14		
4) Proposed depth is	4243 feet MD			
 4) Proposed depth is 5) Estimated tops: 	4:243) feet MD		•	
4) Proposed depth is 14	4243 feet MD MD	TVD	• .	
4) Proposed depth is 5) Estimated tops: Rustler	4:243 feet MD MD 800	TVD 800	•	
4) Proposed depth is 5) Estimated tops: Rustler Salado	4:243 feet MD MD 800 1,100	- TVD 800 1,100	•	BHP = .44 psi/ft x dep
4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime	4:243 feet MD MD 800 1,100 3,118	TVD 800 1,100 3,118	• • •	BHP = .44 psi/ft x dep 1,372 psi
4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top	4,243 feet MD MD 800 1,100 3,118 3,560	TVD 800 1,100 3,118 3,560		BHP = .44 psi/ft x dep 1,372 psi 1,566 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand 	4,243 feet MD MD 800 1,100 3,118 3,560 3,560	TVD 800 1,100 3,118 3,560 3,560	Oil	BHP = .44 psi/ft x dep 1,372 psi 1,566 psi 1,566 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand 	4,243 feet MD MD 800 1,100 3,118 3,560 3,560 4,247	TVD 800 1,100 3,118 3,560 3,560 4,242	Oil Oil	BHP = .44 psi/ft x dep 1,372 psi 1,566 psi 1,566 psi 1,869 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand Brushy Canyon Sand 	4,243 feet MD MD 800 1,100 3,118 3,560 3,560 4,247 5,572	TVD 800 1,100 3,118 3,560 3,560 4,242 5,554	Oil Oil Oil	BHP = .44 psi/ft x dep 1,372 psi 1,566 psi 1,566 psi 1,869 psi 2,452 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand Brushy Canyon Sand Bone Spring 	4,243 feet MD MD 800 1,100 3,118 3,560 3,560 4,247 5,572 7,238	TVD 800 1,100 3,118 3,560 3,560 4,242 5,554 7,203	Oil Oil Oil	BHP = .44 psi/ft x dep 1,372 psi 1,566 psi 1,566 psi 1,869 psi 2,452 psi 3,185 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand Brushy Canyon Sand Bone Spring Bone Spring Sand 	4,243 feet MD MD 800 1,100 3,118 3,560 3,560 4,247 5,572 7,238 9,013	TVD 800 1,100 3,118 3,560 3,560 4,242 5,554 7,203 8,970	Oil Oil Oil Oil	BHP = .44 psi/ft x depi 1,372 psi 1,566 psi 1,566 psi 1,869 psi 2,452 psi 3,185 psi 3,966 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand Brushy Canyon Sand Bone Spring Bone Spring Sand KOP 	4,243 feet MD MD 800 1,100 3,118 3,560 3,560 4,247 5,572 7,238 9,013 9,839	TVD 800 1,100 3,118 3,560 3,560 4,242 5,554 7,203 8,970 9,796	Oil Oil Oil Oil	BHP = .44 psi/ft x dept 1,372 psi 1,566 psi 1,566 psi 1,869 psi 2,452 psi 3,185 psi 3,966 psi 4,329 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand Brushy Canyon Sand Bone Spring Bone Spring Sand KOP Landing Point (Wolfcamp) 	4,243 feet MD 800 1,100 3,118 3,560 3,560 4,247 5,572 7,238 9,013 9,839 10,839	TVD 800 1,100 3,118 3,560 3,560 4,242 5,554 7,203 8,970 9,796 10,440	Oil Oil Oil Oil Oil	BHP = .44 psi/ft x depi 1,372 psi 1,566 psi 1,566 psi 1,869 psi 2,452 psi 3,185 psi 3,966 psi 4,329 psi 4,769 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand Brushy Canyon Sand Bone Spring Bone Spring Sand KOP Landing Point (Wolfcamp) TD 	4,243 feet MD 800 1,100 3,118 3,560 3,560 4,247 5,572 7,238 9,013 9,839 10,839 14,243	TVD 800 1,100 3,118 3,560 3,560 4,242 5,554 7,203 8,970 9,796 10,440 10,440	Oil Oil Oil Oil Oil	BHP = .44 psi/ft x depi 1,372 psi 1,566 psi 1,566 psi 1,869 psi 2,452 psi 3,185 psi 3,966 psi 4,329 psi 4,769 psi 6,267 psi
 4) Proposed depth is 5) Estimated tops: Rustler Salado Lamar Lime Delaware Top Bell Canyon Sand Cherry Canyon Sand Brushy Canyon Sand Bone Spring Bone Spring Sand KOP Landing Point (Wolfcamp) TD 	4,243 feet MD 800 1,100 3,118 3,560 3,560 4,247 5,572 7,238 9,013 9,839 10,839 10,839 14,243	TVD 800 1,100 3,118 3,560 3,560 4,242 5,554 7,203 8,970 9,796 10,440 10,440	Oil Oil Oil Oil Oil	BHP = .44 psi/ft x dep 1,372 psi 1,566 psi 1,566 psi 1,869 psi 2,452 psi 3,185 psi 3,966 psi 4,329 psi 4,769 psi 6,267 psi

	INDIE	ιop	Dottoin OD C3g	wyondde	connection	conapse	Durst	rension
	Size					Design	Design	Design
		·	100	· . ·	· ·	Factor	Factor	Factor
Seg	17 1/2"	0	850 13 3/8"	54.5#/J-55	ST&C	3.02	14.60	11.10
101	12,1/4"	: 0	7,238 9 5/8"	47#/L-80	BT&C	1.49	4.31	3.88
	8 1/2"	0	14;243 5-1/2"	23#/P-110	THS 521	2.32	1.61	2.43

Collapse	·	1.125
Burst		1.0
Tension		2.0

7) Cement program:

Surface	17 1/2" hõle			
Pipe OD	13 3/8"			
Setting Depth	850 ft			
Annular Volume	0.69467.cf/ft			
Evenes			100 %	
-			100 %	•
Lead 6	75 sx	1.75 cf/sk	9.13 gal/sk	13.5 ppg
Tail 20	00 sx	1.33 cf/sk	6.32 gal/sk	14 8 ppg
Lead: "C" + 4% PF20 (gel)	+ 2% PF1 (CC) + .125 pps Pf	29 (CelloFlake) + .4 pp	s PF46 (antifoam)	and a consideral distance of the second s
Tail: "C" + 1% PF1 (CC)	· ·			n de la companya de la compa
	Top of cement:	Surface		
2.2		, ,		
Intermediate	12 1/4" hole			
Pipe OD	9-5/8"	1.,		· · · · ·
Setting Depth	7,238 ft		ى ئىتىپىيەن ئايىلىدىن.	nin a nan
Annular Volume	0.31318 cf/ft	•.	0.3627 cf/ft	850 ft
Excess	0.5		50 %	
DV Tool Depth	5500 ft			
Stage 1				
Lead: 55	2 sx	1 48 cf/sk	7'58 gal/sk	13/0 ^{//} npg
Lead: PVL + 1.3% PF44 + 5%	 PF174 + .5% PF606 + .35% PF8:	13 + 1% PF153 + .4 pps PI	F46	Les Contraction PPB
	Top of cement:	DV tool		
Stage 2		•		
Lead: 1,489	9 sx	1.89 cf/sk	10.06 gal/sk	12.9 ppg
Tail:	5 sx	1.33 cf/sk	6:32 gal/sk	14.8 opg
Lead: 35/65 Poz "C" + 5% PF4	44 + 6% PF20 + .2% PF13 + .125	ps PF29 + .4 pps PF46	i seven na populari seven prantise na seveni se seveni se 🗸 🖉	A STREET AND A STREET
Tail: "C" + .2% PF13			· · · ·	
	Top of cement:	Surface	ft	
Production	8-1/2" hole			
Pipe OD	5- 1/2"			
Setting Depth	14,243 ft			
Annular Volume	0.2291 cf/ft			
Excess	0.32			
			and the second	
Lead: 1,214	l sx	1.87 cf/sk	9:52 gal/sk	13.0. ppg
Lead: AcidSolid PVL + 5% PF1	74 + .7% PF606 + .2% PF153 + .	5% PF13 + 30% PF151 + .4	l pps PF46	a serie and a serie of the series of the ser
	Top of cement:		6,738 ft	
	and the second	· · · · · · · · · · · · · · · · · · ·		

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8) Pressure control equipment:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type (5,000 psi WP) preventer, a bag-type annular preventer (5,000 psi WP), and rotating head. Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and pipe rams (sized to accommodate the drill pipe size being utilized) on bottom. A 13 3/8" SOW x 13 5/8" 5M casing head will be installed on the 13 3/8" casing and utilized until total depth is reached. All BOP and associated equipment will be tested to 5,000 psi and the annular will be tested to 1,500 psi after setting 13-3/8" casing string & 7" casing string. The 13 3/8" and 9 5/8" casing will be tested to .22 psi per ft of casing string length or 1500 psi whichever is greater, but not to exceed 70% of the minimum yield.

The 9.5/8" casing will be hung in the casing head and the stack will not be nippled down at this point. The stack will not be isolated and tested after running the 9.5/8" casing, but will be tested along with the 9.5/8" casing. Pipe rams will be operated and checked each 24 hour period and each time the drill string is out of the hole. These function test will be documented on the daily driller's log.

A drilling spool or blowout preventer with 2 side outlets (choke side shall be 3" minimum diameter, kill side shall be at least 2" diameter).

2 kill line valves, one of which will be a check valve

2 chokes on the manifold along with a pressure gauge.

Upper kelly cock valve with handle available.

Safety valve and subs to fit all drill string connections in use.

All BOP equipment connections subjected to pressure will be flanged, welded, or clamped.

Fill up line above the upper most preventer.

9) Mud program:

Тор <i>Со</i> о в 3,1	Bottom 0 850 50 3,118 18 7,238	Mud Wt. 8.5 to 8.9 9.8 to 10.0 8.9 to 9.5	Vis 32 to 36 28 to 30 40 to 45		PV 1-6 1-3 5-8		YP 1-6 1-3 20-30	Fluid Loss. NC NC <40	Type System Fresh Water Brine WBM
3,1 7,2	16 7,258 38 14,243	10.5 to 12.5	40 to 45 36 to 40	- 2	5-8 6-10	•	20 - 30 8 - 14	<40 8 - 12	Cut Brine

10) Logging, coring, and testing program:

No drill stem test are planned KOP to intermediate: CNL, Caliper, GR, DLL, Intermediate to surface: CNL, GR No coring is planned

11) Potential hazards:

No abnormal pressure or temperature is expected. No H2S is known to exist in the area. Lost circulation can occur in, lost circulation material will be on location and readily available if needed.

12) Anticipated start date Duration

ASAP 40 davs

)N				RIG		
ELL: DCATION:	N 1	lorth Brus 75' FSL &	hy Draw Fe 2365' FWL 1990' FWI	deral Com 35-25S-29E	35-4H	Target Directio	n: Hard Line:	354.98 deg 330
STATION	SURVEY						VERT.	DLS/100
NUMBER	DEPTH	INC	<u>. azmth</u> :	TVD	<u>N-S</u>	E-W	SECTION	
Rustler	800.0	<u></u>		800				
Castile	1100.0		<u>ya katika (da.</u> 11 gale katika	1100		<u> </u>		
	2000.0	<u> dan dan</u>		2000				
	2500.0			2500				<u>telesesses stat</u>
Lamar Lm	3118.0		<u>a. 28</u> 2233	3118	<u>n en Statuer an A</u> raba		terness en sonsen. Artereter (de de de de de	<u>y and a stadio sta.</u> Stadio di Stadio di
D -laur =	3500.0		321.56	3500				
	3560.0	<u>1.2</u> 2.0	321.56	3600	0	0 -1	<u></u>	2.0
	3700.0	4.0	321.56	3700	5	-4	6	2.0
a e la la composita de la comp Reference de la composita de la Reference de la composita de la	3800.0	6.00	321.56	3799		-10		2.0
Cherry Cyn	4247.0	8.10	321.56	4242	60	-17	23, 64	2.1
	5000.0	8.10	321.56	4988	143	-114	153	
Rajehy Cun	5200.0	8.10	321.56	5186	165	-131	176	
	5800.0	8.10	321.56	5780	200	-184	220	
	6000.0	8.10	321.56	5978	254	-201	270	
	6200,0 6400.0	8.10	321.56	6176	276	-219	294	
	6600.0	8.10	321.56	6572	320	-254	341	<u>en andere en en</u>
	6800.0	8.10	321.56	6770	342	-271	364	
onespring Li	7900.0	8.10 B.10	321.56	7859	<u> </u>	-368	416	
	8000.0	. 6.00	321.56	7958	473	-375	504	2.1
	8100.0	<u>4.00</u> 2.00	321.56	8058 8157	480	-381	511	2.0
ing pantang ang pang pang pang pang pang pang pa	8300.0		321.56	8257	485	-385	517	2.0
	8500.0			8457	485	-385	517	. An an Arrest Contraction of the
onespring Sa	9013.0			8970 9457	485	-385	517	
KOP	9839.0		359.82	9796	485	-385	517	
	9939.0	10.00	359.82	9896	494	-385	526	10.0
	10139.0	30.00	359.82	10083	562	-385	594	10.0
	10239.0	40.00	359.82	10165	619	-386	651	10,0
<u>ente</u> station Operation	10289.0	45.00	359.82	10202	653 724	-386	<u>684</u> 755	10.0
1	10439.0	50.00	359.82	10306	761	-386	791	10.0
	10539.0	60.00	359.82	10363	842	-386	873	10.0
<u>e - Longer (A. 1</u> Guige Philippe P	10739.0	80.00	359.82	10406	1029	-387.	963	10.0
EOC/WFCP	10839.0	90.00	359.82	10440	1129	-387	1158	10.0
<u>- 2007 2000, 2</u> 20 507 404 5	11000.0	90.00	359.82	10440	1290	-388	1319	
	12000.0	90.00	359.82	10440	2290	-391	2315	
	12500.0	90.00	359.82	10440	2790	-393	2814	
	13500.0	90.00	359.82	10440	3290	-394	3312 3810	
	14000.0	90.00	359.82	10440	4290	-397	4308	

CONDITIONS OF APPROVAL

OPERATOR'S NAME: RKI EXPLORATION & PRODUCTION LLC LEASE NO.: NM054290 WELL NAME & NO.: North Brusy Draw Federal 35 - 4H SURFACE HOLE FOOTAGE: [175] ' F [S] L [2365] ' F [W] L BOTTOM HOLE FOOTAGE: [230] ' F [N] L [2150] ' F [W] L LOCATION: Section 035, T025: S., R 029 E., NMPM COUNTY: Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.

3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

a 1999 - Balang Balang Barton (1999) - Balang ang Katapatèn atalah sa katapatèn katapatèn katapatèn katapatèn kat The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

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

Centralizers required on surface casing per Onshore Order 2.III.B.1.f. Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

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

High Cave/Karst

Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 600 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - a. First stage to DV tool:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve approved top of cement on the next stage.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1

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

2. Operator has proposed a multi-bowl wellhead assembly that has a weld on head with no o-ring seals. 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 5000 (5M) psi.

- a. Wellhead manufacturer is supplying the test plug/retrieval tool for the operator's third party tester to use during the BOP/BOPE test. Operator shall use the supplied test plug/retrieval tool.
- b. Operator shall install the wear bushing required by the wellhead manufacturer. This wear bushing shall be installed by using the test plug/retrieval tool.
- c. Wellhead manufacturer representative shall be on location when the intermediate casing mandrel is landed. Operator shall submit copy of manufacturer's wellsite report with subsequent report.
- d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

d. The results of the test shall be reported to the appropriate BLM office.

- All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

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

E. WASTE MATERIAL AND FLUIDS

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

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

CRW 103014