F	2//	t
<	H	>

6.	If Indian,	Allotee	or Tribe	Name
	,			

						· · · · · · · · · · · · · · · · · · ·
,			.;O			F
Form 3160-3 (June 2015)		R HOEBS	2019	FORM A	APPROVI	37 (//
UNITED STATE		10° 0	, ,	Expires: Ja	nuary 31,	2018
DEPARTMENT OF THE BUREAU OF LAND MAN	_	R W JIM	-EN	5. Lease Serial No. NMNM015091		
APPLICATION FOR PERMIT TO		R REENTER		6. If Indian, Allotee	or Tribe N	ame
A LIGATION CONT. Elimin 10		*	•	/	\	
1a. Type of work:	REENTER			7. If Unit or CA Agr	eement, N	ame and No.
	Other					
	Single Zone	Multiple Zone		8. Lease Name and		
Te. Type of completion.	Single Zone			ROJO 7811 22 FE 25H	BERAL C	OM
2. Name of Operator BTA OIL PRODUCERS LLC (260297)	,			9. API-Well No. 30-025-	460	87/
3a. Address 104 S. Pecos Midland TX 79701	3b. Phone (432)682	No. (include area cod -3753	e)	10 Field and Pool, of BOBCAT DRAW	-	. 1.0-1
4. Location of Well (Report location clearly and in accordance	_	-		11. Sec., T. R. M. or SEC 22 / T25S / R		
At surface SESW / 220 FSL / 1360 FWL / LAT 32.10				SEC 224 1255 / K	33E / NM	۲
At proposed prod. zone NENW / 50 FNL / 2310 FWL /		16 / LONG -103.5613	325			
14. Distance in miles and direction from nearest town or post o 22 miles	ffice*			12. County or Parish LEA		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location*	840	acres in lease	160	ng Unit dedicated to the	his well	
to nearest well, drilling, completed, applied for, on this lease, ft.		et / 17356 feet		/B000849		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3347 feet	03/20/20	·	start*	23. Estimated durati 30 days	on	
	/ /	tachments				
The following, completed in accordance with the requirements (as applicable)	of Onshore	Oil and Gas Order No. 1	l, and the F	Hydraulic Fracturing r	ule per 43	CFR 3162.3-3
1. Well plat certified by a registered surveyor.			e operation	ns unless covered by ar	existing b	oond on file (see
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst 	tem I ands ti	Item 20 above). 1	ation			
SUPO must be filed with the appropriate Forest Service Office		6. Such other site sp		rmation and/or plans as	may be re	quested by the
25. Signature	Na	me (Printed/Typed)			Date	
(Electronic Submission)		nmy Hajar / Ph: (432)	682-3753	3	11/15/20)18
Title Permitten Appliet						
Regulatory Analyst Approved by (Signature)	Na	me (Printed/Typed)			Date	
(Electronic Submission)		dy Layton / Ph: (575)2	234-5959		05/24/20)19
Title Assistant Field Manager Lands & Minerals	Off CA	rlsbad				
Application approval does not warrant or certify that the applic applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds leg	al or equitable title to the	nose rights	in the subject lease w	hich woul	d entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statement	, make it a cr is or represen	me for any person know tations as to any matter	wingly and within its	willfully to make to a jurisdiction.	any depart	ment or agency
OCA Re06/07/19				KAIN	19	
		TOVALT	INNS	0000	•	

(Continued on page 2)

approval Date: 05/24/2019

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: SESW / 220 FSL / 1360 FWL / TWSP: 25S / RANGE: 33E / SECTION: 22 / LAT: 32.10939 / LONG: -103.5644 (TVD: 0 feet, WD: 0 feet)

PPP: SESW / 330 FSL / 2310 FWL / TWSP: 25S / RANGE: 33E / SECTION: 22 / LAT: 32.109691 / LONG: -103.561293 (TVD: 12247 feet, MD: 12382 feet)

BHL: NENW / 50 FNL / 2310 FWL / TWSP: 25S / RANGE: 33E / SECTION: 22 / LAT: 32.12316 / LONG: -103.561329 (TVD: 12363 feet, MD: 17356 feet)

BLM Point of Contact

Name: Ciji Methola

Title: GIS Support - Adjudicator

Phone: 5752345924

Email: cmethola@blm.gov

(Form 3160-3, page 3)

Approval Date: 05/24/2019

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. 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.

Page 8 of 8

Approval Date: 05/24/2019



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently 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 the company I represent, 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.

NAME: Sammy Hajar

Signed on: 11/13/2018

Title: Regulatory Analyst

Street Address: 104 S Pecos Street

City: Midland

State: TX

Zip: 79701

Phone: (432)682-3753

Email address: SHajar@btaoil.com

Field Representative

Representative Name: Nick Eaton

Street Address: 104 South Pecos

City: Midland

State: TX

Zip: 79701

Phone: (432)682-3753

Email address: neaton@btaoil.com

Operator Maine. DIA OIL PRODUCERS LLO

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	ΔΛΤ
EXIT	330	FNL	231	FWL	25S	33E	22	Aliquot	32.12239	l	LEA		NEW		NMNM	-	170	123
Leg			0					NENW	1	103.5613		MEXI			015091	901	76	65
#1				1						25		co	СО		4	8		
BHL	50	FNL	231	FWL	25\$	33E	22	Aliquot	32.12316	-	LEA	NEW	NEW	F	NMNM	-	173	123
Leg			0					NENW		103.5613		MEXI	MEXI		015091	901	56	65
#1										25		СО	co			8	/	

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

Choke_Hose___Test_Chart_and_Specs_20190325081940.pdf

10M_choke_mannifold_20190325081950.pdf

5M_annular_well_control_plan_for_BLM_20190325081959.docx

10M_annular_variance_20190325082007.pdf

BLM_10M_BOP_with_5M_annular_20190325082015.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	Z	0	1060	0	1060			1060	J-55	54.5	STC	2.5	6	DRY	8.9	DRY	14.8
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4995	0	4995			4995	J-55	40	LTC	1.7	1.5	DRY	2.6	DRY	3.2
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	12442	0	12285			12442	P- 110	29	LTC	1.4	1.9	DRY	2.2	DRY	2.6
4	1	6.12 5	4.5	NEW	API	N	11820	17356	11772	12365			5536	P- 110	13.5	LTC	1.4	2.7	DRY	2	DRY	2.5

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_25H_casing_assumption_20181113144105.JPG

asing Attachments
Casing ID: 2 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Taporou ou mg opos.
Casing Design Assumptions and Worksheet(s):
Rojo_25H_casing_assumption_20181113144116.JPG

Casing ID: 3 String Type: PRODUCTION
Inspection Document:
Spec Document:
opeo bodament.
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Rojo_25H_casing_assumption_20181113144133.JPG
Casing ID: 4 String Type:LINER
Inspection Document:
Spec Document:
opec bocument.
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Rojo_25H_casing_assumption_20181113144141.JPG
Tojo_zoti_dasing_assumption_zototitio144141.0FG

Well Number: 25H

Well Name: ROJO 7811 22 FEDERAL COM

Section 4 - Cement

Uperator Name: BIA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	865	690	1.8	13.5	1206	100	Class C	2% CaCl2
SURFACE	Tail		860	1060	200	1.34	14.8	268	100	Class C	2% CaCl2
INTERMEDIATE	Lead		0	4305	1435	2.18	12.7	3128. 3	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4305	4995	250	1.33	14.8	332.5	25	Class C	1% CaCl2
PRODUCTION	Lead		3995	1116 0	435	2.99	10.5	1300. 65	15	25% Poz 75% Class C	0.4% Fluid Loss
PRODUCTION	Tail		1116 0	1244 2	200	1.19	15.6	238	15	Class H	0.2% LT Retarder
LINER	Lead		1182 0	1735 6	310	1.86	13.2	576.6	10	25% Poz 75% Class C	0.1% Fluid Loss

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1060	OTHER : FW Spud	8.3	8.4							

Uperator Name: BIA UIL PRUDUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1060	4995	OTHER : Saturated Brine	10	10.2							
4995	1228 5	OTHER : Cut Brine	8.6	9.2							
1228 5	1236 5	OIL-BASED MUD	11	11.5	-						

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Drill Stem Tests will be based on geological sample shows.

List of open and cased hole logs run in the well:

CBL,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7394

Anticipated Surface Pressure: 4673.7

Anticipated Bottom Hole Temperature(F): 180

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Rojo_7811_Fed_Com___H2S_Equipment_Schematic_20181113132001.pdf Rojo_7811_Fed_Com___H2S_Plan_20181113132002.pdf

BTA_Oil_Producers_LLC___EMERGENCY_CALL_LIST_20190325084738.pdf

Uperator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Rojo 25H_directional_plan_20181113132030.pdf

Rojo__25H_Wall_plot_20181113132030.pdf

Rojo_7811_22_FED_COM_25H_Gas_Capture_Plan_20181113145843.pdf

Other proposed operations facets description:

A variance is requested for a Multi Bowl Wellhead. See the attached schematic and running procedure. *All strings will be kept 1/3 full while running.

Other proposed operations facets attachment:

Other Variance attachment:

Multi_Bowl_Diagram_20180420093359_20180822152937.pdf

Rojo_7811_27_Fed_Com___Casing_Head_Running_Procedure_03-24-2017.pdf



Contifech

CONTITECH RUBBER

No:QC-DB- 599/ 2014 Page: 16 / 176

Industrial Kft. Page:

Ria 94			<u> </u>	1226	T	244	55
QUALI	TY CONT		ATE	CERT. N	√°:	1592	
PURCHASER:		Dil & Marine Co	4 4 40 1 12 10 19 11 12 12 12 12 12 12 12 12 12 12 12 12	P.O. N°:		4500481	753
CONTITECH ORDER N":	539225	HOSE TYPE:	3" ID	. L	Choke	& Kill Hose	
HOSE SERIAL Nº:		NOMINAL / AC	TUAL LENGTH		7,62 m	/ 7,68 m	
W.P. 68,9 MPe	ieq 0000	T.P. 103,4	MPa 150)00 psi	Duration:	60	min.
Pressure test with water at ambient temperature > 10 Min		See attachi	ment. (1 pa	age)	Aceta T. Co		
COUPLINGS Typ	:e	Senal	Ne.	Qua	lity	Heat	N:
3" coupling with	,	2574	5533	AISI 4	1130	A1582N	H8672
4 1/16" 10K API Swivel F	lange end			AISI 4	1130	588	55
Hub		···		AISI 4	130	A1199N	A1423N
Not Designed For V	Vell Testing	y				API Spec 1	16 C
Fire Rated					Tem	perature i	ate:"B"
All metal parts are flavriess					:		
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TO	HOSE HAS BE	EN MANUFACTURI	ED IN ACCORD	ANCE WITH	THE TERM	S OF THE OR	DER
STATEMENT OF CONFORMIT conditions and specifications of accordance with the referenced a	Y: We hereby of the above Purc	certify that the above	ntents/equipme	nt supplied b	re labricated	inspected and	tested in
Date:	Inspector		Quality Contr	ol			
04. September 2014.			સ્વામી ઇંડિંગ	(កក់ម	arl, kubb: strint Kti, Control De; <u>y Ti</u>		175

33.5

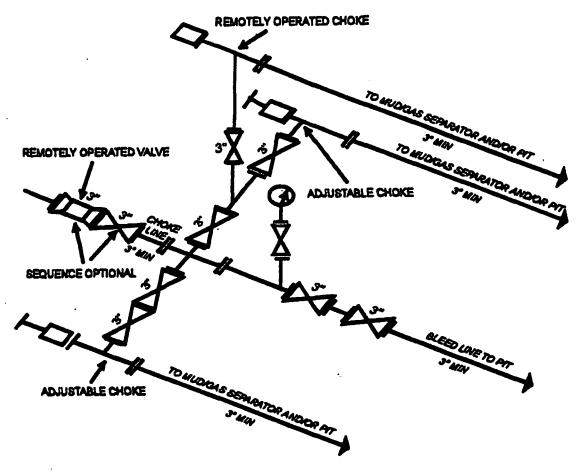
÷

Pressuroloar

Amblent Temperature(*C)

Fite Manne Fite Massage Device Type Senai No. Data Count

Print Group Print Rango Communi



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY [53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

Well control plan for 10M BOPE with 5M annular

Drilling

- 1. Sound alarm (alert crew).
- 2. Space out drill string.
- 3. Shut down pumps (stop pumps and rotary).
- 4. Shut-in Well with annular with HCR and choke in closed position.
- Confirm shut-in.
- 6. Notify tool pusher/company representative.
- 7. Read and record the following:
- a. SIDPP & SICP
- b. Time of shut in
- c. Pit gain
- 8. Regroup and identify forward plan. If pressure has increased to 2500 psi, confirm spacing and close the upper variable bore rams.
- 9. Prepare for well kill operation.

Tripping

- 1. Sound alarm (alert rig crew)
- 2. Stab full opening safety valve and close valve
- 3. Sapce out drill string
- 4. Shut in the well with the annular with HCR and choke in closed position
- 5. Confirm shut in
- 6. Notify tool pusher/company representative
- 7. Read and record the following
- a. Time of shut in
- b. SIDPP and SICP
- c. Pit gain
- 8. If pressure has increased to 2500 psi, confirm spacing and close the upper most variable bore ram.
- 9. Prepare for well kill operation.

While Running Casing

- 1. Sound alarm (alert rig crew)
- 2. Stab crossover and full opening safety valve and close valve
- 3. Space out casing string
- 4. Shut in well with annular with HCR and choke in closed position
- 5. Confirm shut in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
- a. SIDPP & SICP
- b. Pit gain
- c. Time
- 8. If pressure has increased to 2500 psi, confirm spacing and close the upper most variable bore ram.
- 9. Prepare for well kill operation.

No Pipe In Hole (Open Hole)

1. Sound alarm (alert rig crew)

Well control plan for 10M BOPE with 5M annular

- Shut in blind rams with HCR and choke in closed position 2.
- 3. Confirm shut in
- Notify tool pusher/company representative 4.
- 5. Read and record the following:
- SICP a.
- b. Pit gain
- Time C.
- 6. Prepare for well kill operation

- Pulling BHA thru Stack
 Prior to pulling last joint of drill pipe thru the stack
 - Perform flow check, if flowing: a.
 - Sound Alarm (alert crew) a.i.
 - Stab full opening safety valve and close valve a.ii.
 - Space out drill string a.iii.
 - Shut in using upper most VBR, choke and HCR in closed positon a.iv.
 - Confirm shut in a.v.
 - Notify tool pusher/company representative. a.vi.
 - a.vii. Read and record the following:
 - a.vii.1. SIDPP and SICP
 - a.vii.2. Pit gain
 - a.vii.3. Time
 - a.viii. Prepare for well kill operation
 - 2. With BHA in the stack:
 - If possible pull BHA clear of stack a.
 - Follow 'open hole' procedure above a.i.
 - b. If unable to pull BHA clear of stack
 - Stab crossover with full opening safety valve, close valve. b.i.
 - b.ii. Space out
 - b.iii. Shut in using upper most VBR. HCR and choke in closed position.
 - Confirm shut in b.iv.
 - Notify tool pusher/company rep b.v.
 - b.vi. Read and record the following:
 - b.vi.1. SIDPP and SICP
 - b.vi.2. Pit gain
 - b.vi.3. Time
 - Prepare for well kill operation b.vii.

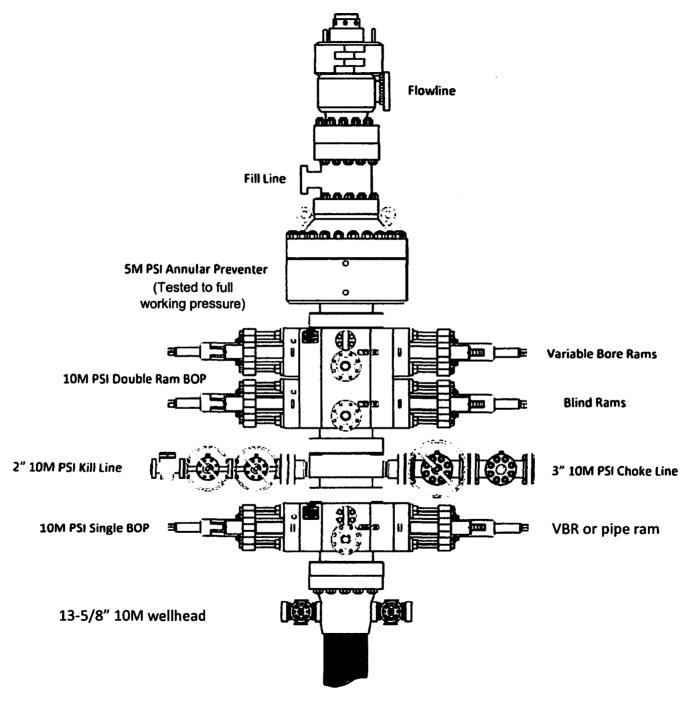
<u>Drilling component and preventer compatibility table</u> <u>for 10M approval</u>

The following table outlines the drilling and production liner components for Wolfcamp targets requiring 10M BOPE approval. Variance is requested to utilize a 5M annular preventer in 6-1/8" hole as all components can be covered using 10M rated VBR's (variable bore rams). 5M annular on the 10M system will be tested to 100% of rated working pressure.

6-1/8" hole section – 10M BOPE requirement (13-5/8" BOP)								
Component	OD	Preventer	RWP					
Drill pipe	4"	3.5"-5.5" VBR	10M					
HWDP	4"	3.5"-5.5" VBR	10M					
Jars	5″	3.5"-5.5" VBR	10M					
DC's and NMDC's	4-3/4"	3.5"-5.5" VBR	10M					
Mud motor	5"	3.5"-5.5" VBR	10M					
Casing	4-1/2"	3.5"-5.5" VBR	10M					
Open hole	NA	Blind rams	10M					

12-1/4" & 8-3/4" hole sections – 5M BOPE requirement (13-5/8" BOP)									
Component	OD	Preventer	RWP						
Drill pipe	5"	3.5"-5.5" VBR or 5" pipe rams	10M						
HWDP	5"	3.5"-5.5" VBR or 5" pipe rams	10M						
Jars	6-1/4"	Annular	5M						
DC's and NMDC's	7"-8"	Annular	5M						
Mud motor	7″-8″	Annular	5M						
Casing	9-5/8" & 7"	Annular	5M						
Open hole	NA	Blind rams	10M						

13-5/8" 10M PSI BOP Stack





BTA Oil Producers, LLC 104 S Pecos Midland, TX 79701

WELL: Rojo 7811 22 Fed #25H TVD: 12365 MD: 17356

DRILLING PLAN

Casing Program

Hole Size	Ceg.Sizo	Prom (MD)	To (MD)	Prom (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapso	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
17 1/2	13 3/8	0	1060	0	1060	No	51.5	J-55	src	2.5	8.0	14.8	8.9	Dry	8.3
12 1/4	9 5/8	0	4995	0	4995	No	40	J-55	LTC	1.7	1.5	3.2	2.B	Dry	10
8 3/4	7	0	12442	0	12295	No	29	P110	LTC	1.4	1.9	2.6	2.2	Diy	9.2
8 1/9	4 1/2	11820	17356	11772	12365	No	13.5	P110	LTC	1.4	2.7	2.5	20	Dry	11.5
														-	

Planning Report - Geographic

Database: Company: EDM 5000.1 Single User Db

BTA Oil Producers, LLC Lea County, NM (NAD 83)

Project: Site:

Well: Wellbore: Rojo #25H

Rojo

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Rojo #25H

GL @ 3347.0usft GL @ 3347.0usft

Grid

Minimum Curvature

Design: Project

Lea County, NM (NAD 83), Lea County, NM

Map System: Geo Datum:

Map Zone:

US State Plane 1983

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Ground Level

Using geodetic scale factor

Site Rojo

Site Position: From:

Well Position

Мар

Northing: Easting:

399,077.50 usft 783,078.55 usft Latitude:

Longitude:

32° 5' 41.057 N 103° 33' 9.721 W

Position Uncertainty:

Slot Radius:

13-3/16 "

Grid Convergence:

0.41°

Well Rojo #25H

+N/-S

0.0 usft 0.0 usft

0.0 usft

Northing: Easting:

404,381.00 usft 779,417.00 usft Latitude: Longitude: 32° 6' 33.797 N

Position Uncertainty

+E/-W

Wellhead Elevation:

0.0 usft

103° 33' 51.844 W

Ground Level:

3,347.0 usft

Wellbore	Weilbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.74	60.14	48,725

Design	Design #1					
Audit Notes:						
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction	
		(usft)	(usft)	(usft)	(°)	
		0.0	0.0	0.0	10.35	

easured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,267.5	0.00	0.00	2,267.5	0.0	0.0	0.00	0.00	0.00	0.00	
2,567.5	6.00	100.15	2,567.0	-2.8	15.4	2.00	2.00	0.00	100.15	
11,500.0	6.00	100.15	11,450.5	-167.2	934.6	0.00	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,750.0	-170.0	950.0	2.00	-2.00	0.00	180.00	
11,842.1	0.00	0.00	11,792.0	-170.0	950.0	0.00	0.00	0.00	0.00	
12,742.1	90.00	359.62	12,365.0	402.9	946.2	10.00	10.00	0.00	359.62	
17,356.4	90.00	359.62	12,365.0	5,017.1	916.0	0.00	0.00	0.00	0.00	Rojo #25H BHL

Planning Report - Geographic

Database:

EDM 5000.1 Single User Db BTA Oil Producers, LLC

Company: Project:

BTA Oil Producers, LLC Lea County, NM (NAD 83)

Site: Well: Rojo

Rojo #25H Wellbore #1

Wellbore: Design:

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rojo #25H

GL @ 3347.0usft GL @ 3347.0usft

Grid

lanned Survey	,						•	· · · · · · · · · · · · · · · · · · ·	
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	404,381.00	779,417.00	32° 6' 33.797 N	103° 33' 51.844 V
100.0	0.00	0.00	100.0	0.0	0.0	404,381.00	779,417.00	32° 6' 33.797 N	103° 33' 51.844 V
200.0	0.00	0.00	200.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33' 51.844 V
300.0	0.00	0.00	300.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
400.0	0.00	0.00	400.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33' 51.844 V
500.0	0.00	0.00	500.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33' 51.844 V
600.0	0.00	0.00	600.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
700.0	0.00	0.00	700.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
800.0	0.00	0.00	800.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
900.0	0.00	0.00	900.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33' 51.844 V
1,000.0	0.00	0.00	1,000.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,100.0	0.00	0.00	1,100.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33' 51.844 V
1,200.0	0.00	0.00	1,200.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,300.0	0.00	0.00	1,300.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,400.0	0.00	0.00	1,400.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,500.0	0.00	0.00	1,500.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,600.0	0.00	0.00	1,600.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,700.0	0.00	0.00	1,700.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,800.0	0.00	0.00	1,800.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
1,900.0	0.00	0.00	1,900.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
2,000.0	0.00	0.00	2,000.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 \
2,100.0	0.00	0.00	2,100.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 \
2,200.0	0.00	0.00	2,200.0	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
2,267.5	0.00	0.00	2,267.5	0.0	0.0	404,381.00	779,417.00	32° 6′ 33.797 N	103° 33′ 51.844 V
2,300.0	0.65	100.15	2,300.0	0.0	0.2	404,380.97	779,417.18	32° 6′ 33.797 N	103° 33′ 51.842 V
2,400.0	2.65	100.15	2,400.0	-0.5	3.0	404,380.46	779,420.01	32° 6′ 33.792 N	103° 33' 51.809 V
2,500.0	4.65	100.15	2,499.7	-1.7	9.3	404,379.34	779,426.28	32° 6′ 33.780 N	103° 33' 51.736 V
2,567.5	6.00	100.15	2,567.0	-2.8	15.4	404,378.23	779,432.45	32° 6′ 33.769 N	103° 33' 51.665 V
2,600.0	6.00	100.15	2,599.3	-3.4	18.8	404,377.64	779,435.79	32° 6′ 33.763 N	103° 33′ 51.626 V
2,700.0	6.00	100.15	2,698.7	-5.2	29.1	404,375.80	779,446.08	32° 6′ 33.744 N	103° 33′ 51.507 V
2,800.0	6.00	100.15	2,798.2	-7.0	39.4	404,373.95	779,456.37	32° 6′ 33.725 N	103° 33' 51.387 V
2,900.0	6.00	100.15	2,897.6	-8.9	49.7	404,372.11	779,466.66	32° 6′ 33.706 N	103° 33′ 51.268 V
3,000.0	6.00	100.15	2,997.1	-10.7	59.9	404,370.27	779,476.95	32° 6' 33.687 N	103° 33' 51.148 V
3,100.0	6.00	100.15	3,096.5	-12.6	70.2	404,368.43	779,487.23	32° 6′ 33.668 N	103° 33' 51.029 V
3,200.0	6.00	100.15	3,196.0	-14.4	80.5	404,366.59	779,497.52	32° 6′ 33.649 N	103° 33′ 50.909 V
3,300.0	6.00	100.15	3,295.4	-16.3	90.8	404,364.75	779,507.81	32° 6′ 33.630 N	103° 33' 50.790 V
3,400.0	6.00	100.15	3,394.9	-18.1	101.1	404,362.91	779,518.10	32° 6' 33.611 N	103° 33' 50.670 V
3,500.0	6.00	100.15	3,494.3	-19.9	111.4	404,361.07	779,528.39	32° 6' 33.592 N	103° 33' 50.551 V
3,600.0	6.00	100.15	3,593.8	-21.8	121.7	404,359.22	779,538.68	32° 6' 33.573 N	103° 33' 50.431 V
3,700.0	6.00	100.15	3,693.2	-23.6	132.0	404,357.38	779,548.97	32° 6' 33.554 N	103° 33' 50.312 V
3,800.0	6.00	100.15	3,792.7	-25.5	142.3	404,355.54	779,559.26	32° 6' 33.536 N	103° 33' 50.192 V
3,900.0	6.00	100.15	3,892.2	-27.3	152.6	404,353.70	779,569.55	32° 6' 33.517 N	103° 33' 50.073 V
4,000.0	6.00	100.15	3,991.6	-29.1	162.8	404,351.86	779,579.84	32° 6′ 33.498 N	103° 33' 49.953 V
4,100.0	6.00	100.15	4,091.1	-31.0	173.1	404,350.02	779,590.13	32° 6' 33.479 N	103° 33′ 49.834 V
4,200.0	6.00	100.15	4,190.5	-32.8	183.4	404,348.18	779,600.42	32° 6' 33.460 N	103° 33′ 49.715 \
4,300.0	6.00	100.15	4,290.0	-34.7	193.7	404,346.34	779,610.70	32° 6' 33.441 N	103° 33' 49.595 \
4,400.0	6.00	100.15	4,389.4	-36.5	204.0	404,344.49	779,620.99	32° 6' 33.422 N	103° 33′ 49.476 \
4,500.0	6.00	100.15	4,488.9	-38.3	214.3	404,342.65	779,631.28	32° 6′ 33.403 N	103° 33′ 49.356 \
4,600.0	6.00	100.15	4,588.3	-40.2	224.6	404,340.81	779,641.57	32° 6' 33.384 N	103° 33′ 49.237 \
4,700.0	6.00	100.15	4,687.8	-42.0	234.9	404,338.97	779,651.86	32° 6' 33.365 N	103° 33' 49.117 \
4,800.0	6.00	100.15	4,787.2	-43.9	245.2	404,337.13	779,662.15	32° 6′ 33.346 N	103° 33' 48.998 \
4,900.0	6.00	100.15	4,886.7	-45.7	255.4	404,335.29	779,672.44	32° 6′ 33.327 N	103° 33' 48.878 \
5,000.0	6.00	100.15	4,986.1	-47.6	265.7	404,333.45	779,682.73	32° 6′ 33.308 N	103° 33' 48.759 V
5,100.0	6.00	100.15	5,085.6	-49.4	276.0	404,331.61	779,693.02	32° 6′ 33.289 N	103° 33' 48.639 V
5,200.0	6.00	100.15	5,185.0	-51.2	286.3	404,329.76	779,703.31	32° 6' 33.270 N	103° 33' 48.520 \

Planning Report - Geographic

Database: Company: EDM 5000.1 Single User Db BTA Oil Producers, LLC Lea County, NM (NAD 83)

Project: Site: Well:

Rojo Rojo #25H

Wellbore: Design: Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Rojo #25H

GL @ 3347.0usft GL @ 3347.0usft

Grid

	Desig					·			
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
5,300.0	6.00	100.15	5,284.5	-53.1	296.6	404,327.92	779,713.60	32° 6′ 33.251 N	103° 33' 48.400 W
5,400.0	6.00	100.15	5,383.9	-54.9	306.9	404,326.08	779,723.88	32° 6' 33.232 N	103° 33' 48.281 W
5,500.0	6.00	100.15	5,483.4	-56.8	317.2	404,324.24	779,734.17	32° 6' 33.213 N	103° 33' 48.161 W
5,600.0	6.00	100.15	5,582.8	-58.6	327.5	404,322.40	779,744.46	32° 6' 33.194 N	103° 33' 48.042 W
5,700.0	6.00	100.15	5,682.3	-60.4	337.8	404,320.56	779,754.75	32° 6' 33.176 N	103° 33' 47.922 W
5,800.0	6.00	100.15	5,781.7	-62.3	348.1	404,318.72	779,765.04	32° 6' 33.157 N	103° 33' 47.803 W
5,900.0	6.00	100.15	5,881.2	-64.1	358.3	404,316.88	779,775.33	32° 6' 33.138 N	103° 33' 47.684 V
6,000.0	6.00	100.15	5,980.6	-66.0	368.6	404,315.04	779,785.62	32° 6' 33.119 N	103° 33' 47.564 V
6,100.0	6.00	100.15	6,080.1	-67.8	378.9	404,313.19	779,795.91	32° 6′ 33.100 N	103° 33' 47.445 V
6,200.0	6.00	100.15	6,179.6	-69.6	389.2	404,311.35	779,806.20	32° 6' 33.081 N	103° 33' 47.325 W
6,300.0	6.00	100.15	6,279.0	-71.5	399.5	404,309.51	779,816.49	32° 6' 33.062 N	103° 33' 47.206 V
6,400.0	6.00	100.15	6,378.5	-73.3	409.8	404,307.67	779,826.78	32° 6′ 33.043 N	103° 33' 47.086 V
6,500.0	6.00	100.15	6,477.9	-75.2	420.1	404,305.83	779,837.07	32° 6' 33.024 N	103° 33' 46.967 W
6,600.0	6.00	100.15	6,577.4	-77.0	430.4	404,303.99	779,847.35	32° 6′ 33.005 N	103° 33' 46.847 W
6,700.0	6.00	100.15	6,676.8	-78.9	440.7	404,302.15	779,857.64	32° 6′ 32.986 N	103° 33' 46.728 W
6,800.0	6.00	100.15	6,776.3	-80.7	450.9	404,300.31	779,867.93	32° 6′ 32.967 N	103° 33' 46.608 W
6,900.0	6.00	100.15	6,875.7	-82.5	461.2	404,298.46	779,878.22	32° 6′ 32.948 N	103° 33' 46.489 W
7,000.0	6.00	100.15	6,975.2	-84.4	471.5	404,296.62	779,888.51	32° 6′ 32.929 N	103° 33' 46.369 W
7,100.0	6.00	100.15	7,074.6	-86.2	481.8	404,294.78	779,898.80	32° 6′ 32.910 N	103° 33' 46.250 V
7,200.0	6.00	100.15	7,174.1	-88.1	492.1	404,292.94	779,909.09	32° 6' 32.891 N	103° 33' 46.130 W
7,300.0	6.00	100.15	7,273.5	-89.9	502.4	404,291.10	779,919.38	32° 6' 32.872 N	103° 33' 46.011 V
7,400.0	6.00	100.15	7,373.0	-91.7	512.7	404,289.26	779,929.67	32° 6′ 32.853 N	103° 33′ 45.892 V
7,500.0	6.00	100.15	7,472.4	-93.6	523.0	404,287.42	779,939.96	32° 6′ 32.834 N	103° 33' 45.772 V
7,600.0	6.00	100.15	7,571.9	-95.4	533.3	404,285.58	779,950.25	32° 6′ 32.816 N	103° 33' 45.653 W
7,700.0	6.00	100.15	7,671.3	-97.3	543.6	404,283.73	779,960.53	32° 6′ 32.797 N	103° 33' 45.533 W
7,800.0	6.00	100.15	7,770.8	-99.1	553.8	404,281.89	779,970.82	32° 6′ 32.778 N	103° 33' 45.414 V
7,900.0	6.00	100.15	7,870.2	-100.9	564.1	404,280.05	779,981.11	32° 6′ 32.759 N	103° 33' 45.294 V
8,000.0	6.00	100.15	7,969.7	-102.8	574.4	404,278.21	779,991.40	32° 6′ 32.740 N	103° 33' 45.175 V
8,100.0	6.00	100.15	8,069.1	-104.6	584.7	404,276.37	780,001.69	32° 6′ 32.721 N	103° 33' 45.055 V
8,200.0	6.00	100.15	8,168.6	-106.5	595.0	404,274.53	780,011.98	32° 6′ 32.702 N	103° 33' 44.936 V
8,300.0	6.00	100.15	8,268.0	-108.3	605.3	404,272.69	780,022.27	32° 6′ 32.683 N	103° 33' 44.816 V
8,400.0	6.00	100.15	8,367.5	-110.2	615.6	404,270.85	780,032.56	32° 6′ 32.664 N	103° 33' 44.697 W
8,500.0	6.00	100.15	8,467.0	-112.0	625.9	404,269.00	780,042.85	32° 6′ 32.645 N	103° 33' 44.577 W
8,600.0	6.00	100.15	8,566.4	-113.8	636.2	404,267.16	780,053.14	32° 6′ 32.626 N	103° 33' 44.458 W
8,700.0	6.00	100.15	8,665.9	-115.7	646.4	404,265.32	780,063.43	32° 6′ 32.607 N	103° 33' 44.338 W
8,800.0	6.00	100.15	8,765.3	-117.5	656.7	404,263.48	780,073.72	32° 6′ 32.588 N	103° 33' 44.219 W
8,900.0	6.00	100.15	8,864.8	-119.4	667.0	404,261.64	780,084.00	32° 6′ 32.569 N	103° 33′ 44.099 W
9,000.0	6.00	100.15	8,964.2	-121.2	677.3	404,259.80	780,094.29	32° 6′ 32.550 N	103° 33′ 43.980 V
9,100.0	6.00	100.15	9,063.7	-123.0	687.6	404,257.96	780,104.58	32° 6' 32.531 N	103° 33' 43.861 W
9,200.0	6.00	100.15	9,163.1	-124.9	697.9	404,256.12	780,114.87	32° 6' 32.512 N	103° 33' 43.741 W
9,300.0	6.00	100.15	9,262.6	-126.7	708.2	404,254.28	780,125.16	32° 6′ 32.493 N	103° 33' 43.622 V
9,400.0	6.00	100.15	9,362.0	-128.6	718.5	404,252.43	780,135.45	32° 6' 32.474 N	103° 33' 43.502 V
9,500.0	6.00	100.15	9,461.5	-130.4	728.8	404,250.59	780,145.74	32° 6′ 32.456 N	103° 33' 43.383 V
9,600.0	6.00	100.15	9,560.9	-132.3	739.1	404,248.75	780,156.03	32° 6′ 32.437 N	103° 33' 43.263 V
9,700.0	6.00	100.15	9,660.4	-134.1	749.3	404,246.91	780,166.32	32° 6′ 32.418 N	103° 33' 43.144 V
9,800.0	6.00	100.15	9,759.8	-135.9	759.6	404,245.07	780,176.61	32° 6' 32.399 N	103° 33' 43.024 V
9,900.0	6.00	100.15	9,859.3	-137.8	769.9	404,243.23	780,186.90	32° 6' 32.380 N	103° 33' 42.905 V
10,000.0	6.00	100.15	9,958.7	-139.6	780.2	404,241.39	780,197.18	32° 6' 32.361 N	103° 33' 42.785 V
10,100.0	6.00	100.15	10,058.2	-141.5	790.5	404,239.55	780,207.47	32° 6′ 32.342 N	103° 33' 42.666 V
10,200.0	6.00	100.15	10,157.6	-143.3	8.008	404,237.70	780,217.76	32° 6' 32.323 N	103° 33' 42.546 V
10,300.0	6.00	100.15	10,257.1	-145.1	811.1	404,235.86	780,228.05	32° 6′ 32.304 N	103° 33' 42.427 V
10,400.0	6.00	100.15	10,356.5	-147.0	821.4	404,234.02	780,238.34	32° 6′ 32.285 N	103° 33' 42.307 W
10,500.0	6.00	100.15	10,456.0	-148.8	831.7	404,232.18	780,248.63	32° 6′ 32.266 N	103° 33' 42.188 W
10,600.0	6.00	100.15	10,555.4	-150.7	841.9	404,230.34	780,258.92	32° 6′ 32.247 N	103° 33' 42.068 W
10,700.0	6.00	100.15	10,654.9	-152.5	852.2	404,228.50	780,269.21	32° 6' 32.228 N	103° 33' 41.949 W

Planning Report - Geographic

Company:

Database: EDM 5000.1 Single User Db

Project:

BTA Oil Producers, LLC Lea County, NM (NAD 83)

Site: Well: Rojo

Rojo #25H

Wellbore: Design:

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rojo #25H GL @ 3347.0usft GL @ 3347.0usft

North Reference:

Survey Calculation Method:

Grid

leasured Depth	Inalinetter	A	Vertical Depth	.N/ 0	.E/14/	Map Northing	Map Easting		
(usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	Latitude	Longitude
10,800.0	6.00	100.15	10,754.4	-154.3	862.5	404,226.66	780,279.50	32° 6' 32.209 N	103° 33' 41.830
10,900.0	6.00	100.15	10,853.8	-156.2	872.8	404,224.82	780,289.79	32° 6' 32.190 N	103° 33' 41.710
11,000.0	6.00	100.15	10,953.3	-158.0	883.1	404,222.97	780,300.08	32° 6' 32.171 N	103° 33' 41.591
11,100.0	6.00	100.15	11,052.7	-159.9	893.4	404,221.13	780,310.37	32° 6' 32.152 N	103° 33' 41.471
11,200.0	6.00	100.15	11,152.2	-161.7	903.7	404,219.29	780,320.65	32° 6′ 32.133 N	103° 33' 41.352
11,300.0	6.00	100.15	11,251.6	-163.6	914.0	404,217.45	780,330.94	32° 6' 32.114 N	103° 33' 41.232
11,400.0	6.00	100.15	11,351.1	-165.4	924.3	404,215.61	780,341.23	32° 6′ 32.096 N	103° 33' 41.113
11,500.0	6.00	100.15	11,450.5	-167.2	934.6	404,213.77	780,351.52	32° 6′ 32.077 N	103° 33' 40.993
11,600.0	4.00	100.15	11,550.1	-168.8	943.1	404,212.23	780,360.10	32° 6' 32.061 N	103° 33' 40.894
11,700.0	2.00	100.15	11,650.0	-169.7	948.3	404,211.31	780,365.25	32° 6' 32.051 N	103° 33' 40.834
11,800.0	0.00	0.00	11,750.0	-170.0	950.0	404,211.00	780,366.97	32° 6' 32.048 N	103° 33' 40.814
11,842.1	0.00	0.00	11,792.0	-170.0	950.0	404,211.00	780,366.97	32° 6' 32.048 N	103° 33' 40.814
11,900.0	5.79	359.62	11,849.9	-167.1	950.0	404,213.93	780,366.95	32° 6' 32.077 N	103° 33' 40.814
12,000.0	15.79	359.62	11,948.0	-148.4	949.9	404,232.63	780,366.83	32° 6' 32.262 N	103° 33' 40.814
12,100.0	25.79	359.62	12,041.3	-112.9	949.6	404,268.08	780,366.60	32° 6' 32.613 N	103° 33' 40.813
12,200.0	35.79	359.62	12,127.1	-61.8	949.3	404,319.21	780,366.26	32° 6' 33.119 N	103° 33' 40.813
12,300.0	45.79	359.62	12,202.8	3.5	948.9	404 384 46	780,365,84	32° 6' 33.765 N	103° 33' 40,813
12,400.0	55.79	359.62	12,265.9	80.8	948.4	404,461.84	780,365,33	32° 6' 34.530 N	103° 33' 40.812
12,500.0	65.79	359.62	12,314.6	168.0	947.8	404,549.01	780,364.76	32° 6′ 35.393 N	103° 33' 40.811
12,600.0	75.79	359.62	12,347.5	262.3	947.2	404,643.32	780,364,14	32° 6′ 36.326 N	103° 33' 40.811
12,700.0	85.79	359.62	12,363.5	360.9	946.5	404,741.90	780,363.50	32° 6′ 37.302 N	103° 33′ 40.810
12,742.1	90.00	359.62	12,365.0	402.9	946.2	404,783.93	780,363.22	32° 6' 37.718 N	103° 33' 40.810
12,800.0	90.00	359.62	12,365.0	460.9	945.9	404,841.86	780,362.84	32° 6' 38.291 N	103° 33' 40.809
12,900.0	90.00	359.62	12,365.0	560.9	945.2	404,941.86	780,362.19	32° 6' 39.280 N	103° 33' 40.809
13,000.0	90.00	359.62	12,365.0	660.9	944.6	405,041.85	780,361,53	32° 6' 40.270 N	103° 33' 40.808
13,100.0	90.00	359.62	12,365.0	760.9	943.9	405,141.85	780,360.88	32° 6' 41.260 N	103° 33' 40.807
13,200.0	90.00	359.62	12,365.0	860.9	943.2	405,241.84	780,360.22	32° 6' 42.249 N	103° 33' 40.807
13,300.0	90.00	359.62	12,365.0	960.9	942.6	405,341.84	780,359.57	32° 6' 43.239 N	103° 33′ 40.806
13,400.0	90.00	359.62	12,365.0	1,060.9	941.9	405,441.83	780,358.91	32° 6' 44.228 N	103° 33' 40.805
13,500.0	90.00	359.62	12,365.0	1,160.9	941.3	405,541.83	780,358.26	32° 6' 45.218 N	103° 33' 40.804
13,600.0	90.00	359.62	12,365.0	1,260.9	940.6	405,641.82	780,357.60	32° 6' 46.207 N	103° 33' 40.804
13,700.0	90.00	359.62	12,365.0	1,360.9	940.0	405,741.82	780,356.95	32° 6' 47.197 N	103° 33' 40.803
13,800.0	90.00	359.62	12,365.0	1,460.9	939.3	405,841.81	780,356.29	32° 6' 48.186 N	103° 33' 40.802
13,900.0	90.00	359.62	12,365.0	1,560.8	938.7	405,941.81	780,355.64	32° 6' 49.176 N	103° 33′ 40.802
14,000.0	90.00	359.62	12,365.0	1,660.8	938.0	406,041.80	780,354.98	32° 6' 50.165 N	103° 33' 40.801
14,100.0	90.00	359.62	12,365.0	1,760.8	937.4	406,141.80	780,354.33	32° 6' 51.155 N	103° 33' 40.800
14,200.0	90.00	359.62	12,365.0	1,860.8	936.7	406,241.79	780,353.67	32° 6' 52.144 N	103° 33' 40.799
14,300.0	90.00	359.62	12,365.0	1,960.8	936.0	406,341.79	780,353.02	32° 6' 53.134 N	103° 33' 40.799
14,400.0	90.00	359.62	12,365.0	2,060.8	935.4	406,441.78	780,352.36	32° 6' 54.123 N	103° 33' 40.798
14,500.0	90.00	359.62	12,365.0	2,160.8	934.7	406,541.78	780,351.71	32° 6' 55.113 N	103° 33' 40.797
14,600.0	90.00	359.62	12,365.0	2,260.8	934.1	406,641.77	780,351.05	32° 6' 56.103 N	103° 33' 40.797
14,700.0	90.00	359.62	12,365.0	2,360.8	933.4	406,741.77	780,350.40	32° 6' 57.092 N	103° 33' 40.796
14,800.0	90.00	359.62	12,365.0	2,460.8	932.8	406,841.76	780,349.74	32° 6' 58.082 N	103° 33' 40.795
14,900.0	90.00	359.62	12,365.0	2,560.8	932.1	406,941.76	780,349.09	32° 6' 59.071 N	103° 33' 40.794
15,000.0	90.00	359.62	12,365.0	2,660.8	931.5	407,041.76	780,348.43	32° 7' 0.061 N	103° 33' 40.794
15,100.0	90.00	359.62	12,365.0	2,760.8	930.8	407,141.75	780,347.78	32° 7' 1.050 N	103° 33' 40.793
15,100.0	90.00	359.62 359.62	12,365.0	2,760.8	930.0	407,241.75	780,347.12	32° 7' 2.040 N	103° 33' 40.792
-			12,365.0		929.5	407,341.74	780,347.12 780,346.47	32° 7′ 3.029 N	103° 33' 40.792
15,300.0	90.00	359.62		2,960.8			•		
15,400.0	90.00	359.62	12,365.0	3,060.8	928.8	407,441.74	780,345.81	32° 7′ 4.019 N	103° 33′ 40.791
15,500.0	90.00	359.62	12,365.0	3,160.8	928.2	407,541.73	780,345.16	32° 7′ 5.008 N	103° 33' 40.790
15,600.0	90.00	359.62	12,365.0	3,260.8	927.5	407,641.73	780,344.50	32° 7′ 5.998 N	103° 33' 40.789
15,700.0	90.00	359.62	12,365.0	3,360.8	926.9	407,741.72	780,343.85	32° 7' 6.987 N	103° 33' 40.789
15,800.0	90.00	359.62	12,365.0	3,460.8	926.2	407,841.72	780,343.19	32° 7' 7.977 N	103° 33' 40.788
15,900.0	90.00	359.62	12,365.0	3,560.8	925.6	407,941.71	780,342.54	32° 7' 8.966 N	103° 33' 40.787

Planning Report - Geographic

Database:

EDM 5000.1 Single User Db

Company: Project:

BTA Oil Producers, LLC Lea County, NM (NAD 83)

Site:

Rojo

Rojo #25H

Well: Wellbore:

Design:

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well Rojo #25H

GL @ 3347.0usft GL @ 3347.0usft

Grid

Planned Survey									
Measured Depth (usft)	inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,100.0	90.00	359.62	12,365.0	3,760.8	924.3	408,141.70	780,341.23	32° 7' 10.946 N	103° 33' 40.786 W
16,200.0	90.00	359.62	12,365.0	3,860.8	923.6	408,241.70	780,340.57	32° 7' 11.935 N	103° 33' 40.785 W
16,300.0	90.00	359.62	12,365.0	3,960.8	922.9	408,341.69	780,339.92	32° 7' 12.925 N	103° 33' 40.784 W
16,400.0	90.00	359.62	12,365.0	4,060.8	922.3	408,441.69	780,339.26	32° 7' 13.914 N	103° 33' 40.784 W
16,500.0	90.00	359.62	12,365.0	4,160.8	921.6	408,541.68	780,338.61	32° 7' 14.904 N	103° 33' 40.783 W
16,600.0	90.00	359.62	12,365.0	4,260.8	921.0	408,641.68	780,337.95	32° 7' 15.893 N	103° 33' 40.782 W
16,700.0	90.00	359.62	12,365.0	4,360.8	920.3	408,741.67	780,337.30	32° 7' 16.883 N	103° 33' 40.782 W
16,800.0	90.00	359.62	12,365.0	4,460.8	919.7	408,841.67	780,336.64	32° 7' 17.872 N	103° 33' 40.781 W
16,900.0	90.00	359.62	12,365.0	4,560.8	919.0	408,941.67	780,335.99	32° 7' 18.862 N	103° 33' 40.780 W
17,000.0	90.00	359.62	12,365.0	4,660.8	918.4	409,041.66	780,335.33	32° 7' 19.851 N	103° 33' 40.779 W
17,100.0	90.00	359.62	12,365.0	4,760.8	917.7	409,141.66	780,334.68	32° 7' 20.841 N	103° 33' 40.779 W
17,200.0	90.00	359.62	12,365.0	4,860.8	917.0	409,241.65	780,334.02	32° 7' 21.830 N	103° 33' 40.778 W
17,300.0	90.00	359.62	12,365.0	4,960.8	916.4	409,341.65	780,333.37	32° 7' 22.820 N	103° 33' 40.777 W
17,356.4	90.00	359.62	12,365.0	5,017.1	916.0	409,398.00	780,333.00	32° 7' 23.378 N	103° 33' 40.777 W

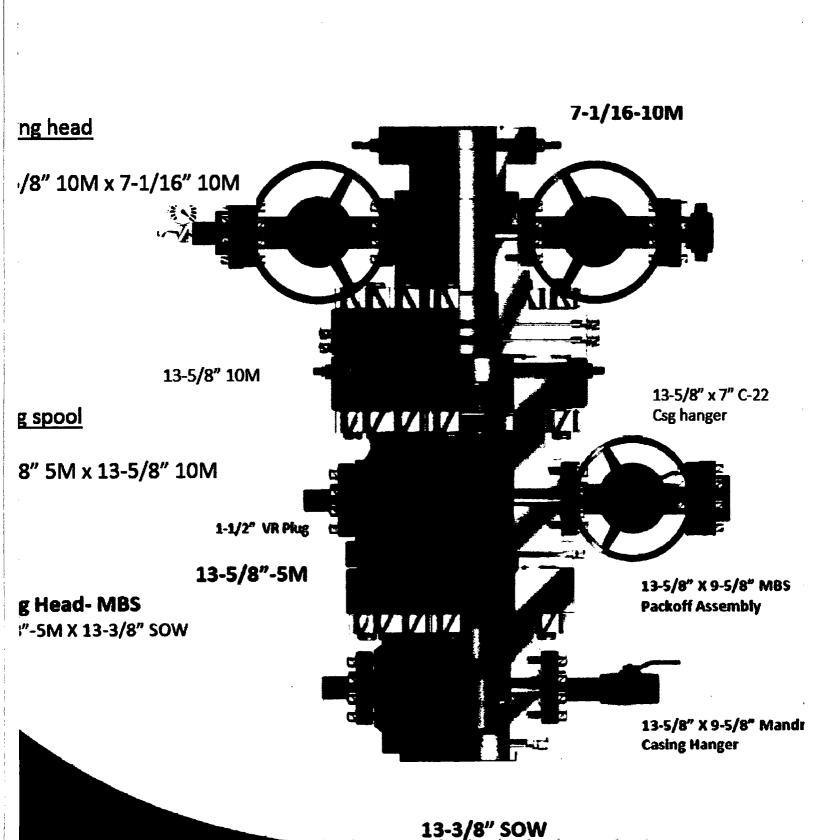
Design Targets	esign Targets											
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude			
Rojo #25H BHL - plan hits target cent - Point	0.00 ter	0.00	12,365.0	5,017.1	916.0	409,398.00	780,333.00	32° 7′ 23.378 N	103° 33' 40.777 W			



Multi-Bowl System

13-5/8" x 9-5/8" x 7"

With 4-1/2" liner downhole



Uncontrolled Copy

Recommended Procedure for Field Welding Pipe to Wellhead Parts for Pressure Seal (continued)

- 7. Welding Technique. Use a 1/8 or 5/32-inch (3.2 or 4.0 mm) E6010 or E7018 electrode and step weld the first bead (root pass); that, weld approximately 2 to 4 inches (50 to 100 mm) and then move diametrically opposite this point and weld 2 to 4 inches (50 to 100 mm) halfway between the first two welds, move diametrically opposite this weld, and so on until the first pass is completed. This second pass should be made with a 5/32-inch (4.0 mm) low hydrogen electrode of the proper strength and may be continuous. The balance of the welding groove may then be filled with continuous passes without back stepping or lacing, using a 3/16-inch (4.8 mm) low hydrogen electrode. All beads should be stringer beads with good penetration. There should be no undercutting and weld shall be workmanlike in appearance.
 - **a.** Test ports should be open when welding is performed to prevent pressure buildup within the test cavity.
 - **b.** During welding the temperature of the base metal on either side of the weld should be maintained at 200 to 300°F (93 to 149°C).
 - c. Care should be taken to insure that the welding cable is properly grounded to the casing, but ground wire should not be welded to the casing or the wellhead. Ground wire should be firmly clamped to the casing, the wellhead, or fixed in position between pipe slips. Bad contact may cause sparking, with resultant hard spots beneath which incipient cracks may develop. The welding cable should not be grounded to the steel derrick, nor to the rotary-table base.
- Cleaning. All slag or flux remaining on any welding bead should be removed before laying the next bead. This also applies to the completed weld.
- Defects. Any cracks or blow holes that appear on any bead should be removed to sound metal by chipping or grinding before depositing the next bead.
- 10. Postheating. Post-heating should be performed at the temperatures shown below and held at that temperature for no less than one hour followed by a slow cooling. The post-heating temperature should be in accordance with the following paragraphs.
 - a. Wellhead members containing o-rings and other polymeric seals have tight limits on the post-heating temperatures. Those temperatures must be controlled at 250°F to 300°F or 120 °C to 150°C and closely monitored to prevent damage to the o-ring or seals.
 - **b.** Wellhead members not containing o-rings and other polymeric seals should be post-heated at a temperature of 400°F to 600°F or 200°C to 300°C.

- 11. Cooling. Rapid cooling must be avoided. To assure slow cooling, welds should be protected from extreme weather conditions (cold, rain, high winds, etc.) by the use of suitable insulating material. (Specially designed insulating blankets are available at many welding supply stores.) Particular attention should be given to maintaining uniform cooling of the thick sections of the wellhead parts and the relatively thin casing, as the relatively thin casing will pull away from the head or hanger if allowed to cool more rapidly. The welds should cool in air to less than 200°F (93°C) (measured with a heat sensitive crayon) prior to permitting the mud to rise in the casing.
- 12. Test the Weld. After cooling, test the weld. The weld must be cool otherwise the test media will crack the weld. The test pressure should be no more than 80% of the casing collapse pressure.

Test	Media
Acceptable Medias	Unacceptable Medias
Water Water Soluable Oil Inert Gas •Nitrogen •Argon Gas	Oxygen Acetylene Hydraulic Oil Motor Oil Brake Fluid

RP-001	Reviewed By:	Approved By:
Rev 0	Benco T. Ross	BQ
Page 4	Date: Oct 21, 2010	Date: Oct 21, 2010

WFT Casing Head (Slip on Weld with O-Ring) Running Procedure





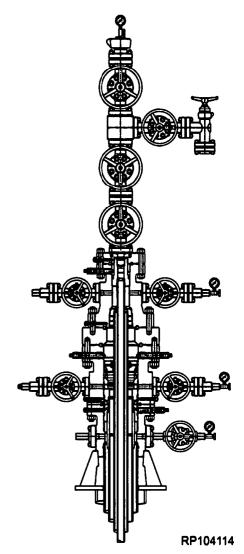
Weatherford®

Wellhead Field Service Manual

WFT-SB Wellhead System Running Procedure

Publication: SM-11-1

Release Date: December 2014



©2014 Weatherford International Ltd. All Rights Reserved

*		Prepared By:	Reviewed By:	Approved By:	SM-11-1
Weatherford	Field Service Manual	March Robertson	Bruce Ross	Manuel Zaragoza	Rev WIP
TYCALICI IVI U	Mariaa	Marion Robertson	Bruce Ross	Manuel Zaragoza	D 4 -4 04
5-3-GL-GL-WES-00XXX		Dec 2014	Dec 2014	Dec 2014	Page 1 of 24

Table of Content

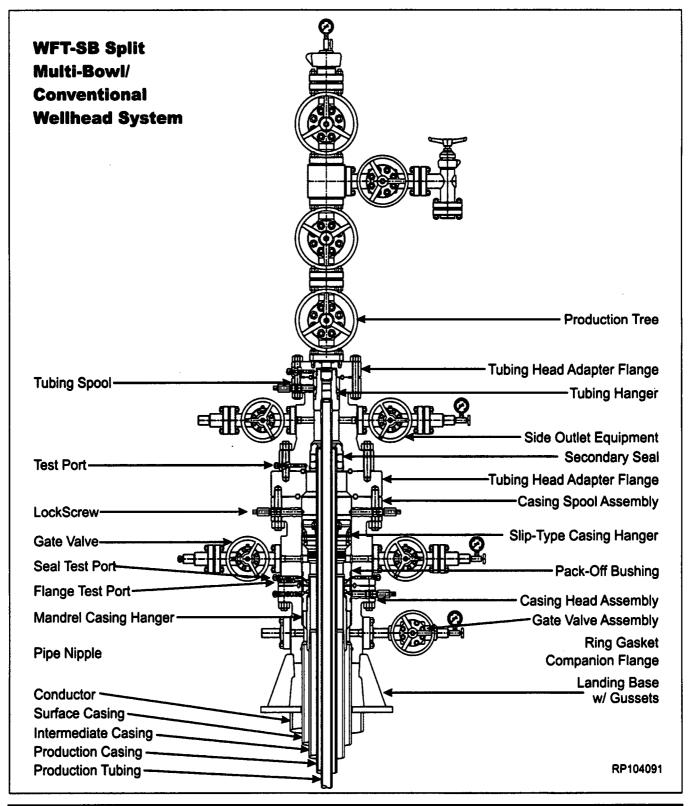
WFT-Split Bowl (SB) Wellhead System	
Wellhead System Assembly Drawing	
Running Procedure	
Casing Head/Spool Assembly Rig-Up and Installation	4
Testing the BOP	5
Running and Retrieving the Long Bowl Protector	3
Running the Bowl Protector Prior to Drilling	6
Retrieving the Bowl Protector After Drilling	7
Hanging Off the Intermediate Casing	7
Hanging Off the Intermediate Casing- Contingency Completion	9
Installation of the Pack-Off Bushing and Energizing the Seals	10
Installation	10
Energizing the Seal	12
Retesting the BOP Stack	14
Running and Retrieving the Short Bowl Protector	15
Running Short Bowl Protector	15
Retrieving the Short Bowl Protector	16
Running the Production Casing	16
Installation of the Slip-Type Casing Hanger Under the BOP Stack	16
Installation of the Slip-Type Casing Hanger Through the BOP Stack	17
Hanging Off the Production Casing	18
Installation and Testing the Tubing Spool Assembly	20
Installation	20
Testing the Secondary Seal and Flange Connection	20
Testing the BOP	21
Hanging Off the Production Tubing String	22
Installing and Testing of the Production Tree	23
Installation	23
Testing	24

*
Weatherford
5-3-GL-GL-WES-00XXX

Field Services Manual

Prepared By:	Reviewed By:	Approved By:	SM-13-1	
Mason Robotson	Brad Franks	Manual Zaragoza	Rev WIP	
Marion Robertson	Brad Franks	Manual Zaragoza	Page 2 of 24	
Dec 2014	Dec 2014	Dec 2014	Fage 2 01 24	

WFT Split Bowl (SB) Wellhead System



₩	Field Comics	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Weathorford	Field Service Manual	Macon Robotan	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford		Marion Robertson	Brad Franks	Manual Zaragoza	Page 3 of 24
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	- Faye 3 01 24

 Liberally lubricate the outer diameter of the hanger neck and inner diameter of the running tool O-ring seals with a light oil or grease.



Do NOT use pipe dope or other metal based compounds. This will cause galling.

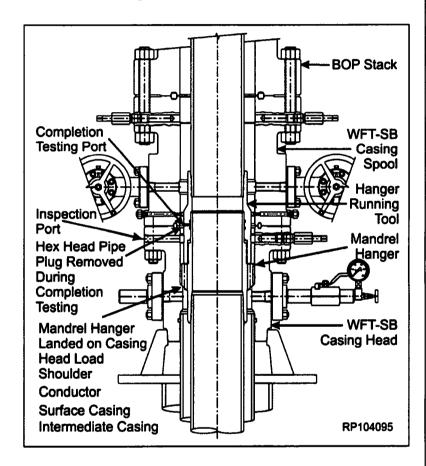
7. Maintaining a neutral weight, rotate the hanger running tool with chain tongs, first clockwise until a thread "jump" can be felt, then counterclockwise, approximately eight turns, to a positive stop, and then back off (clockwise) one quarter (1/4) turn.



Do NOT torque the running tool to the casing hanger connection. Do NOT back off more than one quarter (1/4) turn.

- 8. Remove the flush fitting hex head pipe plug from the outer diameter of the running tool and attach a test pump.
- Apply hydraulic test pressure to 5,000 psi and hold for 15 minutes or as required by the drilling supervisor.
- Upon completion of a successful test, bleed off test pressure through the test pump and remove the pump. Replace the pipe plug.
- Locate indicator groove machined in outer diameter of Running Tool, coat with white paint.

- 12. Verify that all lockscrews in the WFT-SB casing head/casing spool assembly are fully retracted.
- Slowly and carefully lower the mandrel hanger through the BOP stack, and land the hanger onto the casing head load shoulder.
- 14. Slack off weight on the casing.
- 15. Check that the well is stable and no pressure buildup or mud flow is occurring.



₩	Field Service	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Mostharfard		Mateu Roberton	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford Manual	Marion Robertson	Brad Franks	Manual Zaragoza	Page 8 of 24	
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	- Fage 6 01 24

- 16. Drain the BOP stack through the casing head side outlet valves.
- Remove the pipe plug from the casing head flange port marked "Inspection Port."
- Visually verify that the running tool groove is in the center of the inspection port, and that the mandrel hanger has landed properly.
- 19. Reinstall the pipe plug and tighten securely.
- 20. Place a paint mark on the landing joint level with the rig floor, and cement casing as required.

NOTE

If the casing is to be reciprocated during cementing, it is advisable to pick up the mandrel hanger a minimum of eight feet above the landing point. Place a mark on the landing joint, level with the rig floor, and then reciprocate above that point. If at any time resistance is felt, land the mandrel casing hanger immediately.

21. Retrieve the hanger running tool and landing joint by rotating landing joint clockwise (to the right), fourteen full turns.

Hanging off Intermediate Casing – Contingency Completion

NOTE

The following procedure should ONLY be followed if the intermediate casing should become stuck in the hole. If the casing did NOT get stuck and is successfully hung off with the mandrel casing hanger, skip this stage.

- Cement the intermediate casing in accordance with the program, taking returns through the flow-by flutes of the mandrel casing hanger as required.
- 2. Drain the casing head bowl through the side outlet.
- 3. Separate the WFT-SB casing spool from the casing head.
- Pull up on WFT-SB casing spool and suspend it above casing head, high enough to install a WFT-21 Slip Type Casing Hanger.
- 5. Wash out as required.
- 6. Examine the WFT-21 slip type casing hanger. Verify the following:
 - Hanger is correct size, clean and undamaged.
 - Slip segments are sharp and in proper position.
 - All screws are in place.
- 7. Remove the latch screw to open the slip type hanger.
- 8. Place two boards on the casing head flange, against the casing, to support the hanger.
- 9. Wrap the hanger around the casing and replace the latch screw.
- 10. Prepare to lower the hanger into the casing head bowl.
- 11. Grease the WFT-21 slip type casing hanger body and remove the slip retaining cap screws.
- 12. Remove the boards and allow the hanger to slide down into the casing head.

*	Field Service Manual	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Weethordove		Haron Roberton	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford		Marion Robertson	Brad Franks	Manual Zaragoza	Page 9 of 24
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	- raye 9 01 24

13. Once the hanger has landed securely on the casing head bowl load shoulder, pull tension on the casing to the desired hanging weight, and then slack off.

NOTE

A sharp decrease on weight indicator will signify that the hanger has taken weight. If this does not occur, pull tension again and slack once more.

- 14. Rough cut the casing approximately eight inches, or more, above the top of the casing head flange. Remove the excess casing.
- 15. Final cut the casing at 2 1/2" +/- 1/8" above casing head flange.
- Bevel the casing outer diameter (1/4" x 30 degrees) and inner diameter (1/8" x 30 degrees).
- 17. Remove and discard the used gasket ring from the casing head.
- 18. Clean the mating ring grooves on the WFT-SB casing spool and casing head. Lightly wipe with oil or grease.

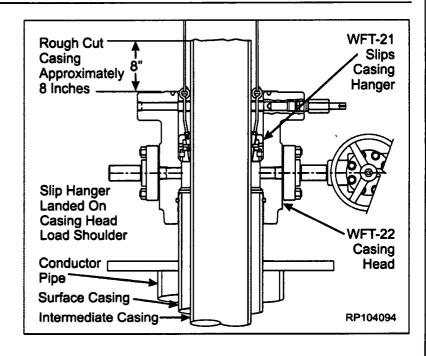


Excessive oil or grease will prevent a positive seal from forming.

- 19. Install a new appropriately sized ring gasket into the casing head groove.
- Loosely reconnect or make up the WFT-SB casing spool to the casing head.

NOTE

The casing spool to casing head connection will be fully tightened after the pack-off bushing is run and proper setting is verified.



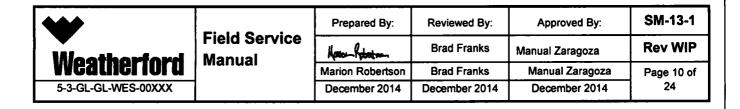
Installation of the Pack-Off Bushing and Energizing the P-Seals

WFT-SB Pack-Off Bushing Installation

NOTE

Installation procedure is identical for both Standard and Emergency WFT-SB Pack-Off Bushings.

- 1. Determine which pack-off bushing to use:
 - If casing has been run normally and is hung off with a mandrel casing hanger, use a standard packoff bushing.
- Examine the appropriate pack-off bushing. Verify the following:
 - All elastomer seals are in place and undamaged.
 - Bore, ports and alignment lugs are clean and in good condition.
 - Coat the lockscrew relief groove with white paint.
- Liberally lubricate the inner diameter of the double P-seal grooves and outer diameter of dovetail seals with a light oil or grease.



- 4. Examine the pack-off bushing running tool. Verify the following:
 - All elastomer seals are properly installed, clean and undamaged
 - Threads are clean, undamaged and free of debris
 - Bore and ports are clean and unobstructed.
- Make-up a landing joint to the running tool and rack back assembly.
- Run two or three stands of heavy weight drill pipe or collars in the hole and set floor slips.

NOTE

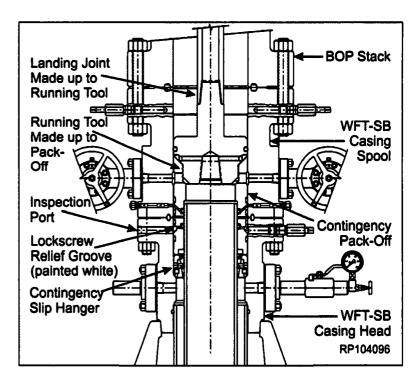
Use heavy weight drill pipe or drill collars. Weight required to push Pack-Off Bushing into Casing Head, over Mandrel Hanger slick neck, is approximately 14,000 lbs.



When lowering the drill pipe into the well, extreme caution must be taken to not damage the top of the mandrel hanger with the end of the drill pipe. It is recommended that the drill pipe be centralized to the hanger inner diameter, as closely as possible, when entering the hanger.

- 7. Carefully lower the bushing over the drill pipe and set it on top of floor slips.
- Make up the landing joint/running tool assembly to the drill pipe suspended in floor slips.
- Carefully pick up the pack-off bushing, thread the bushing into the running tool, then rotate the bushing approximately two turns counterclockwise (to the left), coming to a positive stop.

 Lower the assembly through the BOP Stack and the WFT-SB spool assembly until the pack-off bushing lands on the casing hanger.



- 11. Verify, through inspection port that the pack-off bushing has landed properly after:
 - ensuring well is stable and no pressure buildup or mud flow is occurring.
 - drain BOP Stack through Casing Head side outlet valves
 - remove Pipe Plug (1"-NPT) from Casing Head flange port marked "Inspection Port".
 - Check, to ensure, bottom of Lockscrew relief groove (painted white) on Support Bushing is at bottom of inspection port.
 - Reinstall Pipe Plug and tighten securely.
- 12. Fully run in all Casing Head Lockscrews (lower flange), in an alternating cross pattern.
- 13. Using two chain tongs, 180 apart, rotate Landing Joint/Running Tool approximately 2 turns clockwise (to the

*	Field Service Manual	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Moothorford		Marcon Roberton	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford	Wallual	Marion Robertson	Brad Franks	Manual Zaragoza	Page 11 of
5-3-GL-GL-WES-00XXX	_	December 2014	December 2014	December 2014	24

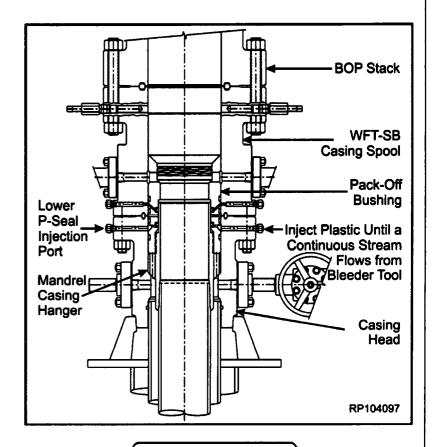
right), coming to a stop and carefully lift tool to Drill Floor, set aside.

NOTE

If the Contingency Pack-Off Bushing is being installed, it is now necessary to make up the Speed Head Casing Head/Casing Spool connection. Tighten all studs in an alternating cross pattern until the flange bolting is fully made up.

Energizing the P-Seals

- Locate the two lower injection fittings ("INJ"), located 180 degrees apart on the casing head. Remove the dust cap from one fitting and remove the second fitting entirely.
- Attach a bleeder tool to the injection fitting without the dust cap, in the casing head. Open the bleeder tool.
- Attach a plastic injection tool to the open port and inject plastic packing into the port until a continuous stream flows from the bleeder tool. Close the bleeder tool.
- Remove the injection tool. Reinstall the injection fitting into the open port and remove the dust cap. Reattach the injection tool.
- Continue injecting plastic packing to 5,000 psi. or to 80% of casing collapse pressure, whichever is less.



NOTE

The strength of a mandrel casing hanger slick neck is equivalent to P110 Grade casing with the same weight as run in the casing string.

- 6. Hold and monitor pressure for 15 minutes or as required by the drilling supervisor.
- 7. If pressure drops, the plastic packing has not filled the seal area completely. Open the bleeder tool, bleed off the pressure and repeat Steps 5 and 6, until pressure is stabilized.
- 8. Remove the plastic injection tool and bleeder tool. Reinstall the dust caps on both injection fittings.
- 9. Repeat Steps 1 thru 8 to pack off and energize the upper P-Seal.

~
Weatherford
5-3-GL-GL-WES-00XXX

Field Service Manual

Prepared By:	Reviewed By: Approved By:		SM-13-1
Marcon Robertson	Brad Franks	Manual Zaragoza	Rev WIP
Marion Robertson	Brad Franks	Manual Zaragoza	Page 12 of
December 2014	December 2014	December 2014	24

- Locate the "SEAL TEST" fitting, slightly below and 90 degrees from the injection fittings. Remove the dust cap from this fitting.
- 11. Attach a test pump to the fitting.
- 12. Pump clean test fluid between the P-Seals until a test pressure of 5,000 psi or 80% of casing collapse pressure is attained, whichever is lower.



Do NOT exceed 80% of casing collapse pressure when a slip type casing hanger and contingency pack-off bushing are utilized.

- 13. Hold test pressure for 15 minutes or as required by the drilling supervisor.
- 14. If pressure drops, a leak has developed. Take the appropriate action per the following table:

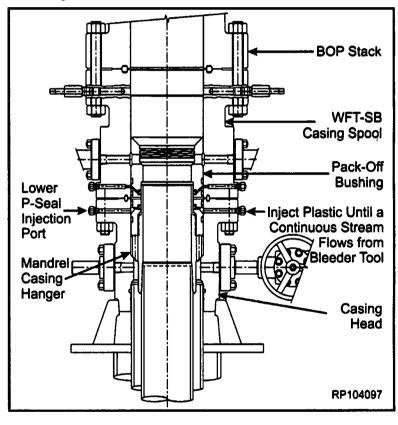
Leak Location	Cause	Action
Into the bore of the casing head	Upper P- seal leaking	Bleed off pressure and re-inject plastic packing into leaking upper P- seal port.
Around the casing	Lower P- Seal leaking	Bleed off pressure and re-inject plastic packing into lower P-seal port.

- 15. Repeat Steps 12 thru 14 until a satisfactory test is achieved.
- 16. Once a satisfactory test is achieved, carefully bleed off pressure and remove Test Pump.
- 17. Attach the bleeder tool to the test port fitting and open the tool to vent any remaining trapped pressure.



Always direct the bleeder tool port away from people and property.

18. Remove the bleeder tool and reinstall dust cap in Test Port Fitting.



*	Field Service Manual	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Moothordove		Marcon Pobolina	Brad Franks	Manual Zaragoza	Rev WIP
vveameriora		Marion Robertson	Brad Franks	Manual Zaragoza	Page 13 of
5-3-GL-GL-WES-00XXX	l	December 2014	December 2014	December 2014	24

Retesting the BOP Stack

- Examine the Test Plug/Running Tool. Verify the following:
 - Elastomer seals are intact and in good condition.
 - Drill pipe threads are clean and in good condition.

NOTE

Immediately after testing the support bushing seals and periodically during conditioning of the hole prior to running tubing, the BOP stack (flanged connections and rams) must be tested.

Orient the test plug with elastomer down/ACME threads up. Make up a joint of drill pipe to the test plug.

NOTE

Remove the pipe plug from the weep port if pressure is to be supplied through the drill pipe.



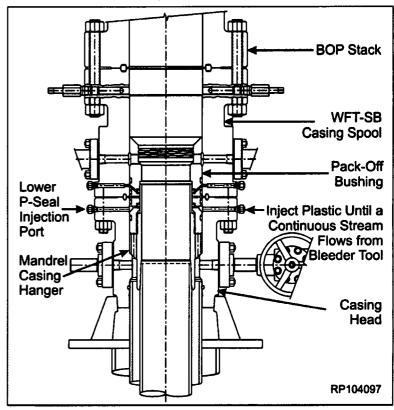
Make sure the elastomer is down and ACME threads are up when testing.

3. Fully retract all lockscrews in the upper WFT-SB Spool Assembly.

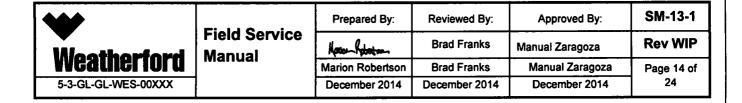


Do NOT retract the lockscrews located in the casing head (lower flange). Doing so could allow the pack-off support bushing to rise out of position.

4. Lubricate the test plug elastomer seal with light oil or grease.



- 5. Lower the test plug through the BOP stack into the WFT-SB spool assembly until it lands on top of the pack-off bushing.
- 6. Open the upper WFT-SB casing spool side outlet valves. Monitor for any leakage past the test plug seal.
- 7. Close the BOP rams on the drill pipe and test to 10,000 psi or as required by the drilling supervisor.
- 8. After a satisfactory test is achieved, release all pressure and open the rams.
- 9. Remove as much fluid from the BOP stack as possible.
- 10. Retrieve the test plug assembly slowly to avoid damage to the seal.
- 11. Close all outlet valves on the WFT-SB casing head/spool assembly.



Running and Retrieving the Short Bowl Protector

NOTE

Always use a bowl protector while drilling to protect the wellhead load shoulders from damage by the drill bit or rotating drill pipe. The bowl protector must be retrieved prior to running the casing string!

Running the Bowl Protector Prior to Drilling

- 1. Examine the short bowl protector. Verify the following:
 - Bore drift is correct size, is clean, in good condition, and free of debris.
 - Threads are correct size and type.
 - Threads are clean and in good condition.
- 2. Orient the bowl protector running tool with ACME threads down.

NOTE

The running tool is the same tool used for handling the long bowl protector.



Make sure that the left hand (LH) ACME threads are down prior to engaging the bowl protector running tool into the short bowl protector.

- 3. Make-up a drill pipe joint to the running tool.
- Thread the running tool into the short bowl protector, rotating two turns counterclockwise (to the left).
- Verify that all upper lockscrews in the WFT-SB spool assembly are fully retracted. Slowly lower the running

tool/bowl protector assembly through the BOP stack into the WFT-SB spool assembly until it lands on top of the pack-off bushing.



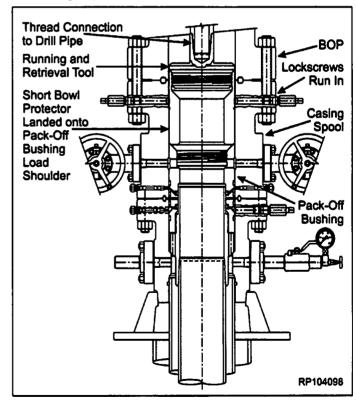
Do NOT retract the lower lockscrews located in the WFT-SB casing head, as this could allow the pack-off bushing to rise out of position.

 On the upper WFT-SB spool assembly, run in two lockscrews ("snug" tight ONLY), 180 degrees apart, to hold the bowl protector in place.



Do NOT over tighten the lockscrews, as this will cause damage to both the bowl protector and lockscrews.

- 7. Remove the running tool from the bowl protector, by rotating the drill pipe clockwise two turns while lifting straight up.
- 8. Drill out and prepare to the production casing string per the drilling supervisor's instructions.



*	Field Service Manual	Prepared By:	Prepared By: Reviewed By:		SM-13-1
Monthordovel		Mason Roboton	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford		Marion Robertson Brad	Brad Franks	Manual Zaragoza	Page 15 of
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	24

Retrieval of the Short Bowl Protector After Drilling

- 1. Make up the retrieval tool to the drill pipe with ACME threads down.
- 2. Slowly lower the retrieval tool into the bowl protector.
- Rotate the retrieval tool counterclockwise, two turns, to engage with the bowl protector ACME threads.
- 4. Fully retract both lockscrews on the casing spool (upper flange), and retrieve the bowl protector.
- 5. Remove the bowl protector and retrieval tool from the drill string.

Running the Production Casing

1. Run the production casing to necessary depth and cement as required.

NOTE

There are two methods for installing WFT-22 Slip Type Casing Hangers:

- Under the BOP stack.
- Through the BOP stack.

Installation of the Slip-Type Casing Hanger Under the BOP Stack

- 1. Drain the casing head through the uppermost side outlet valve.
- 2. Lift and suspend the BOP stack above the WFT-SB spool assembly to a minimum of 18 inches.
- 3. Wash out the WFT-SB casing head/spool assembly as required.
- Confirm that ONLY the lockscrews in the casing spool (upper flange) are fully retracted.

- 5. Examine the WFT-22 slip-type casing hanger. Verify the following:
 - · Slip segments are clean and undamaged.
 - All screws are in place.
 - Packing element is clean and undamaged.

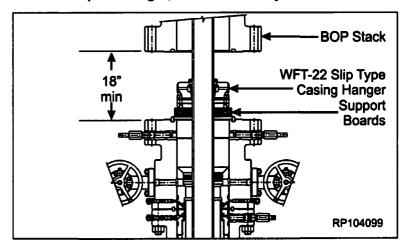


The packing element should not protrude past the casing hanger outer diameter. If the packing element does extend past the outer diameter, loosen the cap screws in the bottom of the hanger.

- 6. Place two boards across the casing spool face, against the casing, to support the hanger.
- 7. Disengage the spring loaded latch, open the hanger and wrap the hanger around the casing, allowing the support boards to carry weight.
- 8. Re-engage the casing hanger spring loaded latch.
- Remove the slip retaining cap screws from the outer diameter of the hanger body, allowing the slip segments to settle around the casing.
- 10. Supporting the weight of the casing hanger, remove the support boards and lower the hanger into the WFT-SB casing head/spool assembly until it lands on the pack-off bushing load shoulder.



Do NOT drop the hanger; lower it carefully.



~	Field Service Manual	Prepared By: R		Approved By:	SM-13-1
Weatherford		Marion Robotson	Brad Franks	Manual Zaragoza	Rev WIP
		Marion Robertson	Brad Franks	Manual Zaragoza	Page 16 of
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	24

Installation of the Slip-Type Casing Hanger through the BOP Stack

- Drain the WFT-SB casing head/spool assembly and BOP stack through the side outlet valves on the spool assembly.
- 2. Wash out the wellhead assembly until clean returns are seen.
- 3. Examine the slip type casing hanger. Verify the following:
 - slip segments are clean and undamaged
 - all screws are in place
 - Packing Element is clean and undamaged.



The packing element should not protrude past the casing hanger outer diameter. If the packing element does extend past the outer diameter, loosen the cap screws in the bottom of the hanger.

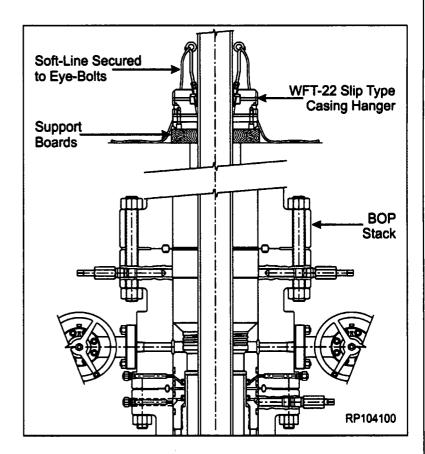
- 4. Place two boards across the rotary table, against the casing, to support the hanger.
- Disengage the spring loaded latch, open the hanger and wrap it around the casing, allowing the support boards to carry the weight.
- 6. Re-engage the casing hanger's spring loaded latch.
- 7. Measure the distance from the top flange of the WFT-SB casing spool to the drilling rig floor (RKB).
- 8. Measure out two lengths of soft-line cord (rope) to the same length as the

RKB measurement, and adding an additional 10 feet to each line.

- 9. Mark the soft line cord at the required length.
- 10. Install two eyebolts into the tapped holes in the top of the casing hanger slip segments, 180 degrees apart.
- 11. Securely tie the soft-line cord to the eyebolts.



Measuring the soft-line cord and installing the eyebolts into the hanger segments should be done offline.



*	Field Service Manual	Prepared By: F		Approved By:	SM-13-1
Mosthandard		Mason Robotan	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford		Marion Robertson	Brad Franks	Manual Zaragoza	Page 17 of
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	24

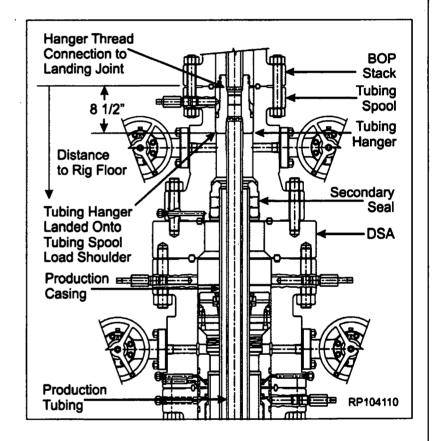
Hanging off the Production Tubing String

- 1. Run the production tubing and space out appropriately for the tubing hanger.
- 2. Examine the TC1AEN Tubing Hanger. Verify the following;
 - Packing element is clean and undamaged.
 - S-seals are properly installed.
 - S-seals are clean and undamaged.
 - All threads are clean and undamaged.
- 3. Make-up a short handling joint to the top of the tubing hanger.
- 4. Pick up the tubing hanger and make it up to the tubing string, tightening the connection to the thread manufacturer's recommended optimum torque value.
- Remove the short handling joint from the top of the hanger. Make up the landing joint to the top of the tubing hanger, tightening the connection to the thread manufacturer's recommended minimum torque values.
- Ensure that all tubing spool lockscrews are fully retracted from the bore and open side outlet valves. Drain the BOP stack.

NOTE

The side outlet valves should remain open while landing the tubing hanger.

- 7. Calculate the distance from the tubing spool load shoulder to the rig floor. Measure from the face of the tubing spool.
- 8. Carefully lower the tubing hanger into the well, tallying the tubing every five feet, until the tubing hanger lands securely on the tubing spool load shoulder.
- 9. Run in all tubing spool lockscrews, in an alternating cross pattern, to 300 ft-lbs, in 75 ft-lb increments.
- 10. Remove the landing joint from the tubing hanger, and set it aside.



~	Field Service Manual	Prepared By:	Reviewed By:	Approved By:	SM-13-1
•		Harry Roberton	Brad Franks	Manual Zaragoza	Rev WIP
vyeauteriuru		Marion Robertson	Brad Franks	Manual Zaragoza	Page 22 of
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	24

- 11. Install the Type H Back Pressure Valve, carefully lowering the BPV through the BOP stack into the tubing hanger. Rotate the BPV counterclockwise (to the left) until it bottoms out in the tubing hanger BPV prep. Continue rotating counterclockwise, approximately 7 turns, to retrieve the running tool.
- 12. With the well safe and under control, the BOP stack may be removed.

Installation and Testing of the Production Tree

Installation

- Examine the production tree assembly. Verify the following;
 - Bore is clean and free of debris.
 - All valves are in the fully open position.
 - All threads and seal areas are clean and undamaged.
 - All fittings, nuts and handwheels are intact and undamaged.
- Thoroughly clean all exposed portions of the tubing hanger, tubing head adapter flange and bottom prep of the tubing head adapter.
- Thoroughly clean mating ring grooves of the tubing head adapter flange and WFT-TCM tubing spool.
- Lightly lubricate the tubing hanger neck outer diameter and tubing head adapter flange bottom prep with oil or grease.

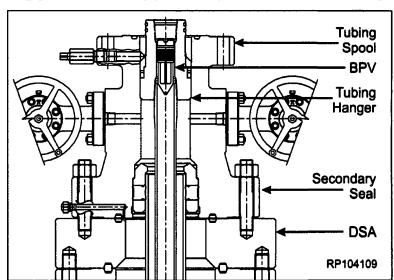


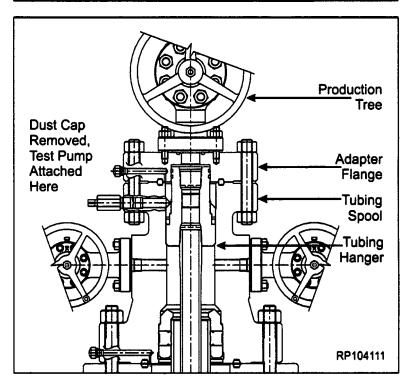
Excessive oil or grease will prevent a positive seal from forming.

Install a new appropriately sized ring gasket into the WFT-TCM tubing spool groove. 6. Fill the void area around the hanger with hydraulic fluid, to the top of the tubing spool assembly.



Do NOT overfill the void area, allowing oil to run into the ring groove. This may prevent a positive seal from forming.





*	Field Service Manual	Prepared By: Reviewed By:		Approved By:	SM-13-1
i i		Marion Robertson	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford		Marion Robertson	Brad Franks	Manual Zaragoza	Page 23 of
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	24

 Align and level the production tree above the tubing hanger and carefully lower it over the tubing hanger neck, landing it on the ring gasket.



Do NOT damage the hanger neck seals, as this will impair their sealing ability.

8. Make up the connection using the appropriate studs and nuts, and tightening in an alternating cross pattern, as required by API 6A.

Testing the Production Tree Connection

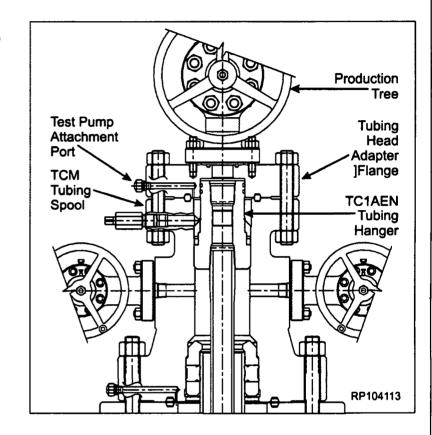
- Locate the test port fitting on the outer diameter of the tubing head adapter flange. Remove the dust cap from the fitting.
- 2. Attach a test pump to test port fitting, and open the pump.
- Pump clean test fluid into void area between flanges, test to 10,000 psi maximum.
- 4. Hold and monitor pressure for 15 minutes or as required by the production supervisor.
- Once a satisfactory test is achieved, carefully bleed off test pressure and remove the test pump.
- 6. Attach a bleeder tool to the test port fitting, and open the tool to vent any remaining trapped pressure.



Always direct the bleeder tool away from people and property.

7. Remove the bleeder tool and reinstall the dust cap on the test port fitting.

- 8. Remove the type 'H' back pressure valve (BPV) through the production tree.
- 9. Ensure that the well is safe and secure by closing all gate valves.



~	Field Service Manual	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Weatherford		Hosen Pototon	Brad Franks	Manual Zaragoza	Rev WIP
		Marion Robertson	Brad Franks	Manual Zaragoza	Page 24 of
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	24

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

06/03/2019

APD ID: 10400036292

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Type: OIL WELL

Submission Date: 11/15/2018

Well Number: 25H

Well Work Type: Drill

High Linuacida (a rafiacia una must radanuchangas

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

1062_Rojo_7811_22_Fed_Com__25H_Vicinity_Map_20181113132110.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

1062_Rojo_7811_22_Fed_Com__25H_Topographical___Access_Rd_20181113132142.pdf

New road type: RESOURCE

Length: 2206

Feet

Width (ft.): 25

Max slope (%): 2

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 15

New road access erosion control: Road construction requirements and regular maintenance would alleviate potential impacts to the access road from water erosion damage.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Operator Name: BIA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Material will be obtained from the closest existing caliche pit as designated by the BLM.

Onsite topsoil removal process: The top 6 inches of topsoil is pushed off and stockpiled along the side of the location. An approximate 160' X 160' area is used within the proposed well site to remove caliche. Subsoil is removed and stockpiled within the pad site to build the location and road. Then subsoil is pushed back in the hole and caliche is spread accordingly across proposed access road.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Proposed access road will be crowned and ditched and constructed of 6 inch rolled and compacted caliche. Water will be diverted where necessary to avoid ponding, maintain good drainage, and to be consistent with local drainage patterns.

Road Drainage Control Structures (DCS) description: Any ditches will be at 3:1 slope and 3 feet wide.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Rojo_7811_22_Fed__25H___1mi_Radius_Map_20181113133950.pdf

Rojo 25H 1 Mile radius_well_data_20181113133959.xlsx

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: If well is productive, we will use the existing well pad for the tank battery and all necessary production facilities.

Production Facilities map:

Production_Facility_Layout_20180131163053.pdf

Operator Name: BIA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL,

Water source type: OTHER

INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

CASING

Describe type:

Source longitude: -103.652695

Source latitude: 32.06315

Source datum: NAD27

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 100000

Source volume (acre-feet): 12.88931

Source volume (gal): 4200000

Water source and transportation map:

Rojo_7811_22_Fed_Com_25H___WATER_TRANS_ROUTE_20181113134059.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

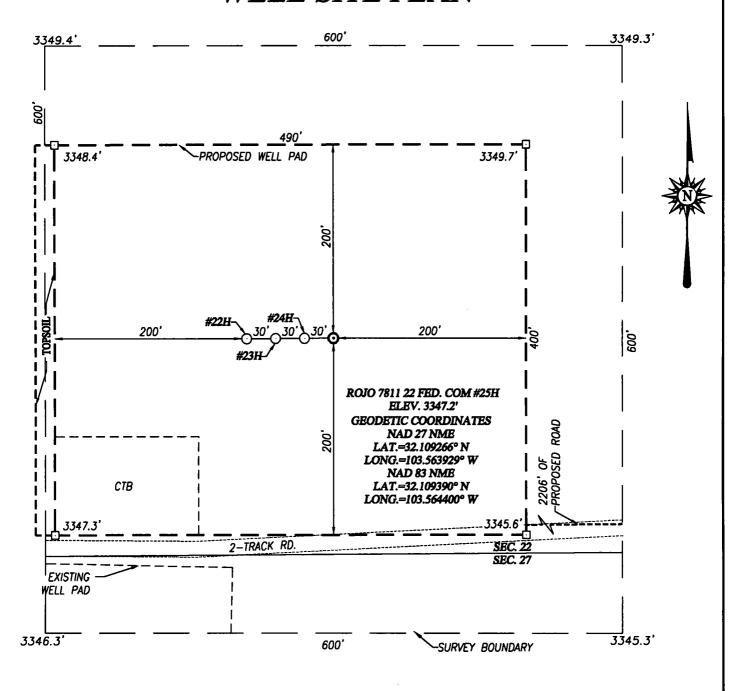
Water well additional information:



BTA OIL PRODUCERS, LLC
WATER TRANSPORTATION MAP
ROJO JV-P FED COM #22H - 25H WELLPAD TO 8105 MESA PIT
SEC 22 T25S - R33E
LEA COUNTY, NM



WELL SITE PLAN



NOTE:

SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF NM ST. HWY. #128 AND ST. HWY. #18 IN JAL, GO WESTERLY ON ST. HWY. #128 14 MILES TO CO. RD. J-2 (BATTLE AXE). FOLLOW CO. RD. J-2 MEANDERING RD. SOUTHWEST 13 MILES TO EL PASO N.G. ROAD. FOLLOW EL PASO RD. WEST 0.9 MILES. TURN RIGHT AND GO NORTH 3 MILES. TURN RIGHT AND GO EAST 0.1 MILES TO THIS LOCATION.



PROVIDING SURVEYING SERVICES
STINCE 1946

JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240

? N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000 100 0 100 200 Feet

Scale: 1"=100'

BTA OIL PRODUCERS, LLC

ROJO 7811 22 FEDERAL COM #25H WELL LOCATED 220 FEET FROM THE SOUTH LINE AND 1360 FEET FROM THE WEST LINE OF SECTION 22, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

C Anjelico\2016\BTA OIL PRODUCERS, LLC\WELLS\16111062 Rojo 7811 22 Fed Com #25H

U.S. Department of the interior BUREAU OF LAND MANAGEMENT

06/03/2019

APD ID: 10400036292

Submission Date: 11/15/2018

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 25H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	QUATERNARY	3347	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2338	1009	1009	ANHYDRITE	NONE	No
3	TOP SALT	1775	1572	1572		NONE	No
4	BASE OF SALT	-1422	4769	4769	·	NONE	No
5	DELAWARE	-1670	5017	5017		NATURAL GAS,OIL	No
6	BONE SPRING	-5794	9141	9141		NATURAL GAS,OIL	No
7	WOLFCAMP	-8900	12247	12247		NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 14000

ilitario de la composición del la composición del la composición de la composición de la composición de la composición del la

Requesting Variance? YES

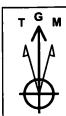
Teschip Acces in the Same of the Commission of t

Choke Diagram Attachment:

Choke_Hose___Test_Chart_and_Specs_20190325081940.pdf

10M_choke_mannifold_20190325081950.pdf

BOP Diagram Attachment:



10500

12250-

450

900

1350

1800

2250

Vertical Section at 10.35° (900 usft/in)

3150

3600

4050

Azimuths to Grid North True North: -0.41° Magnetic North: 7.33°

Magnetic Field Strength: 48725.1snT Dip Angle: 60.14° Date: 12/31/2009 Model: IGRF200510 WELL DETAILS: Rojo #25H

4950

4500

Ground Level: 3347.0

+N/-S +E/-W Northing 0.0 0.0 404381.00

4800-

Easting Latittude

779417.0032° 6' 33.7971603° 33' 51.844 W

Longitude

PROJECT DETAILS: Lea County, NM (NAD 83)

Datum: North American Datum 1983

Zone: New Mexico Eastern Zone

Geodetic System: US State Plane 1983

Ellipsoid: GRS 1980

System Datum: Ground Level

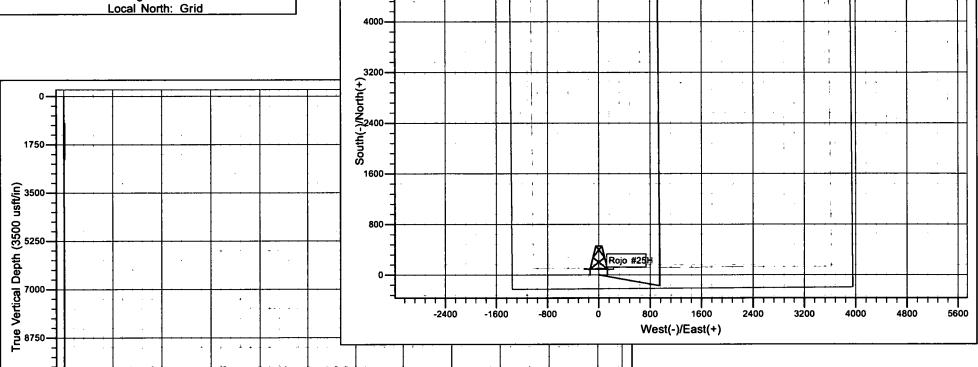
SITE DETAILS: Rojo

Site Centre Northing: 399077.50

Easting: 783078.55

Positional Uncertainity: 0.0 Convergence: 0.41

BTA Oil Producers, LLC



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000849

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: