Form &160-3 (November 1983)

SUBMIT IN TRIPLICATE.

(Other instruction

30-045-27626

Form approved.

"GENERAL REQUIREMENTS

	(formerly 9-331C		NITED STATE ENT OF THE	S INTERIOR	reverse side		Expires August 31, 1985
			OF LAND MANA		- HW44		5. LEASE DESIGNATION AND SERIAL NO.
	A DDI ICA						SF-078511
	ALLEICA	TION FOR PERM	I TO DRILL,	DEEPEN, OR	r Plug Ba	CK	6. IF INDIAN, ALLOTTEB OR TRIBE NAME
	1a. TYPE OF WORK						
	h =====	DRILL X	DEEPEN		PLUG BACK		7. UNIT AGREEMENT NAME
	D. TYPE OF WELL OIL WELL	GAS WELL X OTHER			MULTIPLE		
	2. NAME OF OPERAS			ZONE X	ZONE	<u> </u>	S. FARM OR LEASE NAME
		Union Toyas Date					Quinn 17
	3. ADDRESS OF OPE	<u>Union Texas Petr</u>	oreum corp.	Attn: Ken	<u>E. White</u>		9. WELL NO.
							2
	4 100.000	P.O. Box 2120	Houston, TX	77252-2120)		10. FIELD AND POOL, OR WILDCAT
	At surface	LL (Report location clearly	and in accordance wi	th any State require	ements.*)		Basin (Frt Coal)
		2300 FNL & 1850	FEL			ŀ	11. SEC., T., B., M., OR BLE.
	At proposed pro	d. zone				- 1	AND SURVEY OR AREA
							G 17 000 00
	14. DISTANCE IN M	ILES AND DIRECTION FROM	NEAREST TOWN OR POS	T OFFICES			Sec. 17-31N-8W
		16 miles East of				1	12. COUNTY OR PARISH 13. STATE
	15. DISTANCE FROM	PROPOSED®	AZCEC			İ	San Juan NM
	LOCATION TO NE	AREST		16. NO. OF ACRES	IN LEASE 17	7. NO. OI	F ACRES ASSIGNED IS WELL
	(Also to neares	t drig, unit line, if any;	1850'	2197	12	10 11	
	13. DISTANCE FROM TO NEAREST WE	PROPOSED LOCATION®		19. PROPOSED DEP). ROTAR	T OR CABLE TOOLS
	OR APPLIED FOR, O	N THIS LEASE, FT.	2000	2505		_	
	21. ELEVATIONS (Short	w whether DF, RT, GR, etc.)	2800	3525		Ro	tary
		6404					22. APPROX. DATE WORK WILL START*
This act	BB IS SUNION AS						5-1-90
precedur	al review oursue	rechnical and ret to 43 GFR 3165 3 3 CFR 31822 OF CASING	PROPOSED CASI	NG AND CEMENTIN	NG PROGRAMDR	ILLING	OPERATIONS AUTHORIZED ARE
and app	al puvenant house	CER 3183 OF CISING	WEIGHT PER FO		G DEPTH SUI	BJECT T	O COMPLIANCE WITH ATTACHED
			1	OF SETTING	GUEPTH J.		~ WATER AND STREET

We propose to drill in the Fruitland Coal Formation according to 8 pt drilling plan.

36#

23#

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n <i>n</i>	М	AR	01	19	990	}	

12 1/4

8 3/4

OIL CON. DIV.

PARKET THE WEST OF STREET SOURCES STREET

PARAMETER CONTROL FOR 178W 169

350

3525

heids legal or equitable rights or title to this lease."

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed new productive 2

reventer program, if any.	tinent data on subsurface locations and	measured and true vertical depths. Give blowout
SIGNED ZUWWITE	Regulatory Permit	Coord. DATE 2/1/90
(This space for Federal or State office use)		ADDDOVED
PERMIT NO.		APPROVED
	APPROVAL DATE	AS AMENDED
APPROVED BY		THE PROPERTY SEARCH
CONDITIONS OF APPROVAL, IF ANY:	TITLE	
ch	MMOCO	FAREA MANAGER

"See Instructions On Reverse Side

P.O. Box 2088
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

MAR 01 1990 Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aziec, NM OIL CON LOWION AND ACREAGE DEDICATION PLAT

UNION TEXAS PETROLEUM Unit Letter Section Township Range County Actual Footage Location of Well: 2300 feet from the NOPTH San Street County NOPTH Street County ACTUAL STREET COUNTY SAN JUAN	Operator			DIST."3	stances must be		er boundar	ies of the sec	ction				
Unit Letter Section G 17 Township G 17 Natural Footage Leader G 18 No	j '	ТБУЛС	. DETEC	T FILLS		Lease		15				Well No.	
G 17 31N 8W NMFM County 2300 feet from the NORTH line and 1850 feet from the EAST lites Ground level liev. Producing Formation 6494 FRUITAND COML BASIN 1. Outlies the acreage declicated to the subject well by colored pencil or hardner marks on the piat below. 2. If more than one lease of different ownership is dedicated to the well, now the histories of the line and invalidation, force pooling, sec.? Yes I No. If saver is "yes" type of consolidation with large of the well and the interest of all owners been consolidated by communitization, force-pooling, sec.? Yes I No. If saver is "yes" type of consolidation with large of the well used this interest have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a son-standard unit, sliminating such interest, has been approved by the Division. 3. If not the suggest to the well until this interest have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a son-standard unit, sliminating such interest, has been approved by the Division. 3. If not the suggest to the well until this interest have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a son-standard unit, sliminating such interest, has been approved by the Division. 3. If not the suggest to the well until this interest have been consolidated. (by communitization, unitization, forced-pooling, or otherwise) or until a son-standard unit, sliminating such interest, has been approved by the Division. 3. If not the suggest to the well until this interest have been consolidated. (by communitization, unitization, forced-pooling, or otherwise) or unit of not such approved by the owner of the su	Unit Letter					QUIN	Ŋ	(7)				IF22	
Actual Focage Location of Well: 3300 feet from the NORTH line and Food Fround Iteral Elev. Producing formation 64.94 FRUITLAND COAL BASIN 1. Outlies the acreage decidated to the while, cutiles each and identify the ownership thermof (each as to working interest and royalty). 3. If more than one lease is dedicated to the well, cutiles each and identify the ownership thermof (each as to working interest and royalty). 3. If more than one lease is dedicated to the well, cutiles each and identify the ownership thermof (each as to working interest and royalty). 3. If more than one lease is dedicated to the well, that is a subject to the well and it	[_			1 -		e .		County	,		
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Ground level Elev Producing Formation Prod Pr		_				.•						diday	
Dedicated Arrange: 1. Outline the scrupe dedicated to the well, cuttise each and identify the converting thereof (both as to working interest and royalty). 2. If more than one lease is dedicated to the well, cuttise each and identify the converting thereof (both as to working interest and royalty). 3. If more than one lease of different convercible in dedicated to the well, have the interest of all owners been consolidated by communitation, converced by the convertibilities. If answer is "no" list the converts and trust descriptions which have actually been consolidated. (Use reverse side of this form in secretary. No allowable will be assigned to the well until all interests have been consolidated (by communitation, untilization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. 2. (2. (2. 7. 3. 9) (1. 3. 3. 1. 3. 1. 3. 3. 7. 9. 4. 1. 3. 3. 7. 9. 6. 8. 1. 1. 3. 1. 1. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		feet fr	om the	NORTH	line and		1850)	eet from	n the 🖺	TZA	line	
1. Outline the acreage decleared to the subject well by colored pencil or hackens marks on the plat below. 2. If more than one lease is decleared to the well, cutiline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease is decleared to the well, cutiline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease is decleared to the well, have the interest of all owners been consolidated by communitization, force-pooling, etc? Yes [3] No If sarrows in yes 'type of consolidation [4] If answer is 'no' list the owners and truct descriptions which have actually been consolidated. (Use reverse side of this form if seconsary.) No allowable will be subjected to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. A S 7 - S 2 V 3 3 3 - 7 0 1 3 3 3 - 7 0 1 3 3 3 - 7 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.				Pool						Dedicated Acres	ige:
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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS 5. LEASE NUMBER SF-078511 1. TYPE OF WELL 6. IF INDIAN, ALL. OR TRIBE NAME GAS OPERATOR 7. UNIT AGREEMENT NAME MERIDIAN OIL INC. ADDRESS & PHONE NO. OF OPERATOR 8. FARM OR LEASE NAME P O BOX 4289 QUINN FARMINGTON, NM 87499 9. WELL NO. 335 LOCATION OF WELL 10. FIELD, POOL, OR WILDCAT 2300'FNL 1845'FEL BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 17 T31N R08W NMPM 14. PERMIT NO. 15. ELEVATIONS 12. COUNTY 13. STATE 6494'GL SAN JUAN NM 16. SUBSEQUENT REPORT OF: Amended Application for Permit to Drill Operator & Dame Change 17. Describe proposed or completed operations Reference is made to Union Texas Petroleum's Applicaton for Permit to Drill the Quinn 17 #2 approved 02-27-90. Meridian Oil Inc. will operate and drill this well as the Quinn #335 at 2300'FNL and 1845'FEL of Section 17 of Township T31N and Range R08W. Submitted for review: - C102 AUG 3 1990 - Operations Plan - BOP Diagrams THE CON. DIV. - Location Laydown - Cut and Fill Diagram DIST. 3 - Facilities Diagram

- Location Laydown
- Cut and Fill Diagram
- Facilities Diagram

18. AUTHORIZED BY:

REGULATORY AFFAIRS

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 31 0-5.

(This space for Federal or State office use)

APPROVED BY

CONDITION OF APPROVAL, IF ANY:

NMOCD

TITLE

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

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-102 Revised 1-1-89

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Arlessa, NM \$2210

OIL CONSERVATION DIVISION P.O. Box 2088 Sama Fe, New Mexico 87504-2088

DISTRICTI

119 660 990 1.720 1650 1900 2310 2640

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Merid	ian Oil 1	Inc.		Qui:	nn (Si	F-07851	1)	V	Vell No. 335
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DATE: JUN 25,1990

Well Name: 335 QUINN 2300'FNL 1845'FEL

Sec. 17 T31N R08W SAN JUAN NEW MEXICO

BASIN FRUITLAND COAL Elevation 6494'GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2125 Kirtland- 2200

Fruitland- 3060

Fruitland Coal Top- 3157 Intermediate TD- 3137 Fruitland Coal Base- 3382 Total Depth- 3384

Pictured Cliffs- 3392

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval 0 - 350 350 - 3137 3137 - 3384	Type Spud Non-dispersed Formation Water	Weight 8.4 - 8.9 8.4 - 9.1 8.4	Visc. 40-50 30-60	Fl. Loss no control no control
		TOTMACTON WATER	0.4		no control

Casing Program: Hole Size Depth Interval Csg. Size Weight Grade 12 1/4" 0 - 350 9 5/8" 32.3# H - 408 3/4" 0 - 313720.0# K-55 6 1/4" 3087 - 3384 5 1/2" 15.5# K-55 Tubing Program: 0 - 33842 7/8" 6.5# J-55

Float Equipment: 9.5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above the guide shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2200'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

 $5\ 1/2$ " production casing - float shoe on bottom and a pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 279 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (329 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 461 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 1008 cu ft. of slurry, 110% excess to circulate to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. WOC 12 hours. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

5 1/2" liner - do not cement.

DATE: JUN 25,1990

BOP and Tests:

Surface to intermediate TD - 11" 2000 psi(minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

Intermediate TD to TD - 7 1/16" 2000 psi(minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 2500 psi for 30 minutes; all pipe rams and casing to 2500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

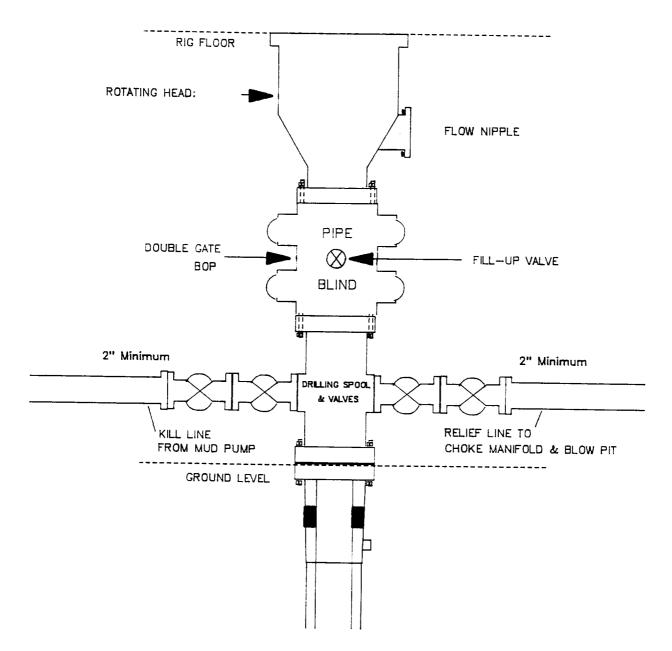
Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional Information:

- * The Fruitland coal formation will be completed.
- * Anticipated Fruitland pore pressure is 1650 psi.
- * This gas is dedicated.
- * The E/2 of Section 17 is dedicated to this well.
- * New casing will be utilized.
- * Cementing Contractor will provide the BLM with a chronological log including the pump rate and pressure, and the slurry density and volume for all cement jobs.
- Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

MERIDIAN OIL INC.

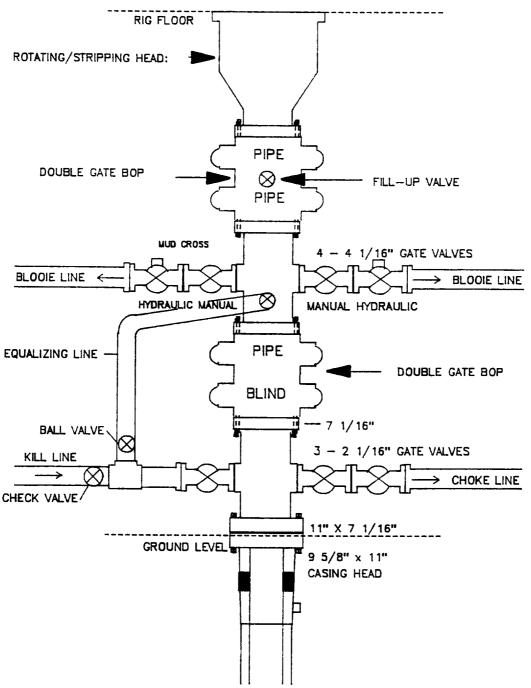
Drilling Rig BOP Configuration



Minimum BOP installation for a typical Fruitland Coal well from surface to Intermediate casing point. 11" Bore (10" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 equivalent rotating head to be installed on the top of BOP. All equipment is 2000psi working pressure/or greater.

MERIDIAN OIL INC.

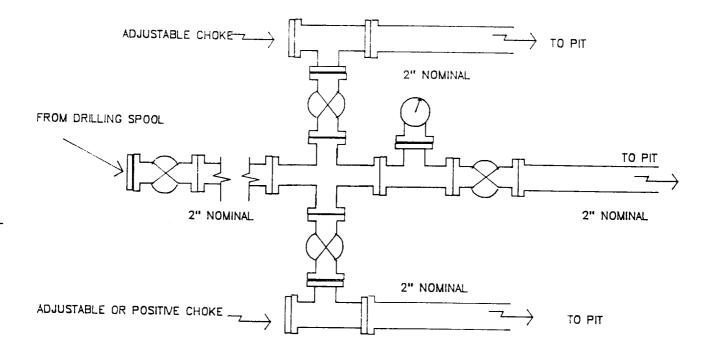
Completion Rig BOP Configuration



Minimum BOP installation for a typical open—hole Fruitland Coal well from intermediate TD to TD. 7 1/16" Bore (6" Nominal), 2000psi working pressure/ or greater double stack double gate BOP equipped with three pipe and one blind ram.

MERIDIAN OIL INC.

Typical Fruitland Coal Well Choke Manifold Configuration



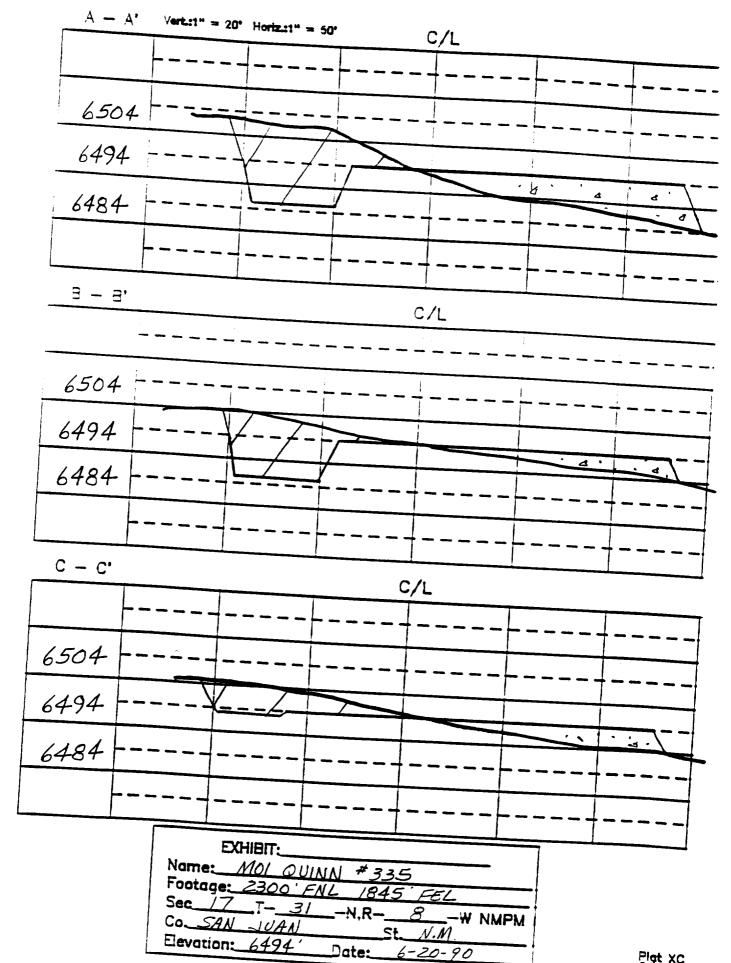
Minimum choke manifold installation for a typical Fruitland Coal well from surface to Total Depth. 2", 2000psi working pressure equipment with two chokes.

Figure #3

Oxod Man Oxod 170" 77 @ ø 0 60° 90'x120'x8'deep Weithead to back 120. 120 CONSTRUCTION ZONE E 18 130 20° 40. Blow Pit 5-75-W LAYDOWN 180 8 ب ت ل 190 **⊕** <u>C</u> (√ / /

EXHIBIT:
Name: MOI QUINN #335
Footage: 2300 FM/ 1045
Sec 17 T- 31 -N, R- 8 -W NMPM
Elevation: 6494 St. NM
Date: 6-20-90

Plat 2 2/3/90



Well Head CATHODIC PROTECTION Earthen Berm **************** Separator Tanks (As required) ¥xxxxxxxxxxxxxxx Dehydrator Fiberglass Pit Chemical Facility Meter Run

PLAT #1

MERIDIAN OIL

ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL

KFR 2/90