/s/ Lee Otteni

APPROVED BY

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

#### State of New Mexico Energy, Minerals & Natural Resources Department

## OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back

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

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

.30-045-	30 (23	71599	BASIN DAKOTA	Pool Name	
Property Code (637)	•		Property Name BOLACK 15		' Well Number 2E
<sup>7</sup> OGRID No. 14021	•		Operator Name N OIL COMPANY		'Elevation 6293

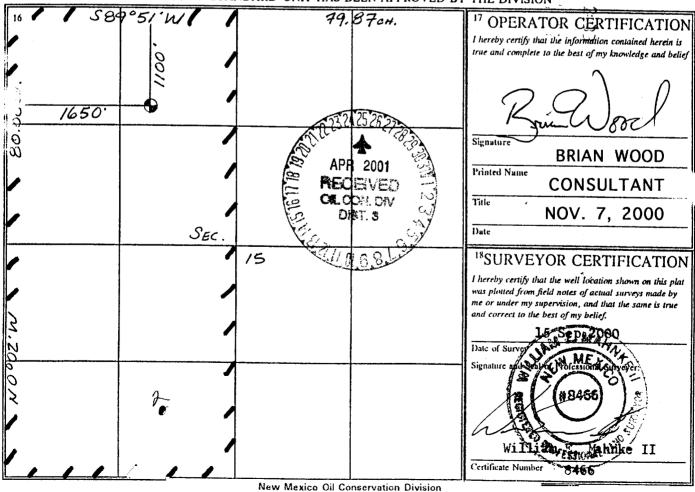
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
. C .	15 .	27 N	11 W		1100	North -	1650	West	San Juan
II Dottom Hole Leasting If Different E. G. C.									

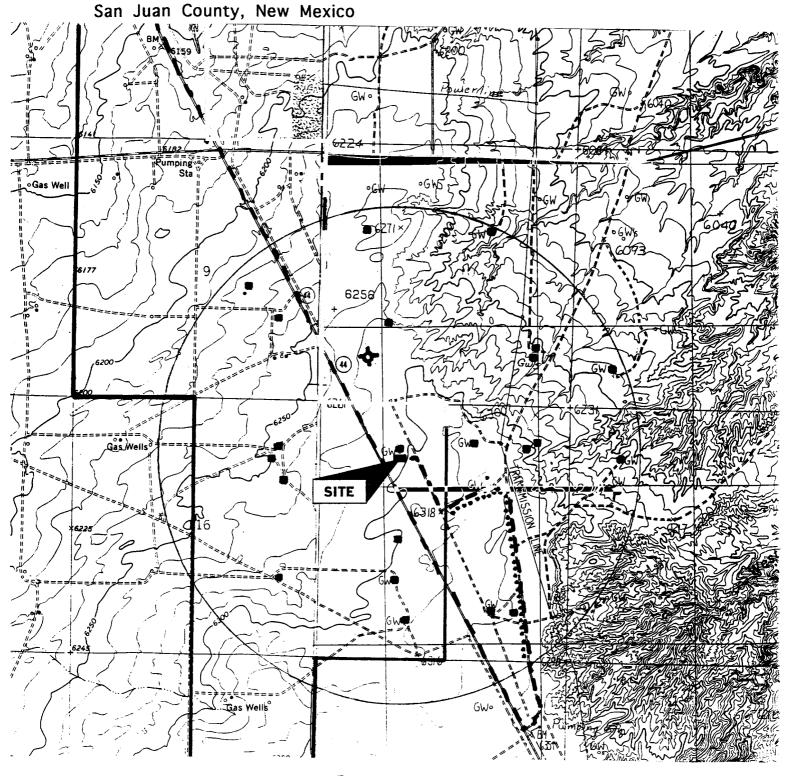
Bottom Hole Location If Different From Surface

·			<del>,</del>			O Doodilon 1	1 Difficient 1 It	om burnece		
TIT.	or iot no.	Section	Township	Runge	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 1)	edicated Acr	ra <sup>13</sup> Ioint	or Infill 14	Consolidatio	n Code   15 C	Neden No.				
L	320 N	3		Consolidatio	n Code	raer No.		e see		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Marathon Oil Company
Bolack 15 2 E
1100' FNL & 1650' FWL
Sec. 15, T. 27 N., R. 11 W.



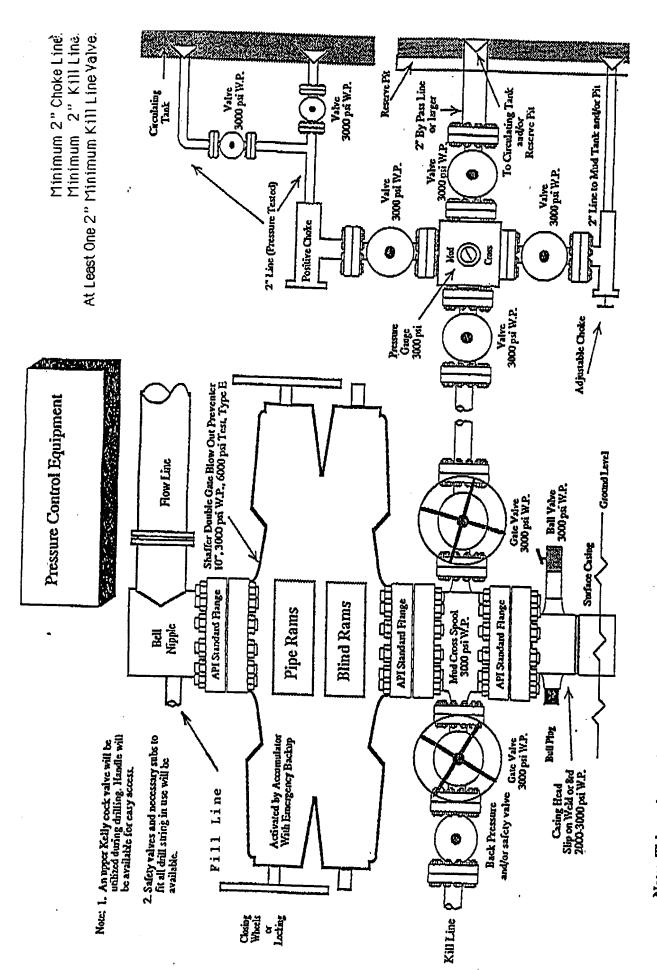
PROPOSED WELL: •

EXISTING WELL: •

P&A WELL: •

LEASE: EXISTING ROAD: --BLM ROAD R/W APPLN: ....





Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

Marathon Oil Company Bolack 15 2 E 1100' FNL & 1650' FWL Sec. 15, T. 27 N., R. 11 W. San Juan County, New Mexico

### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) An 8-5/8" x 11" 2,000 pound double ram BOP system with a choke manifold and mud cross will be tested to 200 psi and then to 2000 psi. Upper and lower Kelly cocks with valve handle and subs to fit all drill string connections which are in use will be available on the rig floor.

Tests will be run when:

- 1) installed
- 2) anytime a pressure seal is broken (test only affected equipment)
- 3) at least every 30 days
- 4) blind & pipe rams will be activated each trip, but no more than daily

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested before drilling surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated daily to ensure good mechanical working order and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs. Maximum expected bottom hole pressure is  $\approx 2,800$  psi. BOP and mud system will control pressure.

#### 4. CASING & CEMENT

Hole Size	<u>O.D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connections	GL Setting Depth
12-1/4"	8-5/8"	24	J-55	Used	8rd, ST&C	325'
7-7/8"	4-1/2"	11.6	K-55	Used	8rd, LT&C	6,860'

Surface casing will be cemented to surface with  $\approx$ 270 cu. ft. ( $\approx$ 230 sx) Class B Neat + 1/4 lb/sk cello-flake + 2% CaCl<sub>2</sub>. Yield = 1.27 cu. ft./sk. Weight = 15.2 lb/gal.



Marathon Oil Company Bolack 15 2 E 1100' FNL & 1650' FWL Sec. 15, T. 27 N., R. 11 W. San Juan County, New Mexico

Conventional centralizers will be set on the bottom two joints and every fourth joint to surface.

Production casing hole will be cemented to surface as follows. DV @ 4,000'.

First stage Lead will be cemented to 4,000' with 828 cu. ft. (600 sx) 50:50 Poz + 5 lb/sk gilsonite + 2% gel + 1/4 lb/sk cello-flake, dispersant, and FLA. Yield = 1.38 cu. ft./sk. Weight = 13.5 lb/gal. Excess = 25%.

Second stage Lead will be cemented to surface with 1440 cu. ft. (500 sx) Class B or H + 10 lb/sk gilsonite + 4% gel + 1/2 lb/sk cello-flake + 3% Econolite. Yield = 2.88 cu. ft./sk. Weight = 11.4 lb/gal. Excess = 50%

Second stage Tail will be cemented to 3,600' with 126 cu. ft. (100 sx) Class B or H Neat + 1/4 lb/sk cello-flake + 2% CaCl. Yield = 1.26 cu. ft./sk. Weight = 15.2 lb/gal. Excess = 10%.

Production casing may be cemented with an alternative foam cement.

First stage Lead will be cemented to 200' with 1320 cu. ft. (1,740 cu. ft. when foamed) or 1,000 sx 50:50 Poz + 2% gel + 2% Diacel LWL 0.094 gal/sk foaming agent. Yield = 1.32 cu. ft./sk (1.74 when foamed). Weight = 13.8 lb/gal (10.5 when foamed). Excess = 15%.

First stage Tail will be cemented to 6,000' with 146 cu. ft. (116 sx) Class B or H Neat + 1/4 lb/sk cello-flake + 2% CaCl. Yield = 1.26 cu. ft./sk. Weight = 15.2 lb/gal.

Cap will be cemented to surface with 75 cu. ft. (60 sx) Class B or H with 2%  $CaCl_2$ .

Conventional centralizers will be set on the bottom two joints, every second joint to 6,100' and every fourth joint from 2,000' to surface.

