SUBMIT IN TRIPLICATE* Form 3160-3 FORM APPROVED (July 1992) (Other instructions on OMB NO. 1004-0136 UNITED STATES Expires: February 28, 1995 reverse side) DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT 6. IF NMS Fire OTTE 888 278 2 MALE APPLICATION FOR PERMIT TO DRILL OR DEEPEN la. TYPE OF WORK 7. UNIT AGREEM AME DRILL 🗹 DEEPEN 🗌 b. TYPE OF WELL 8. FARM OR LEASE NAME WELL WELL MULTIPLE OTHER ZONE 2. NAME OF OPERATOR Bolack 28 4 E Marathon Oil Company 141 (915) 687-8357 30-215 3. ADDRESS AND TELEPHONE NO P. O. Box 552, Midland, Tx. 79702-0552 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.4) Basin Dakota 1650' FSL & 1650' FEL 11. SEC., T., R., M., OR BLK AND SURVEY OR AREA At proposed prod. zone Same
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE **/28-27n-11w** ммрм 12. COUNTY OR PARISH 13 air miles SSW of Bloomfield, NM San Juan NM 15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if any) 16. NO OF ACRES IN LEASE NO. OF ACRES ASSIGNED TO THIS WELL 990 2401.76 18. DISTANCE FROM PROPOSED LOCATION®
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 19 PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 282 6,860 Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* Mar. 1, 2001 6,315' ungraded ground 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT ≈270 cu ft & to surface 325' 24# 8-5/8" (J-55)12-1/4" ≈2394 cu ft & to surface_ 6,860' 11.6# 7-7/8" 4-1/2" (K-55) DEMINING OF PARTIES AND PARTIES. ARE This action is select to technical and States to order and ACHED procedural newswer pursuant to 43 CFR 3155.3 HERRICH TO BEFREMENIST and appeal persuant to 43 CFR 3185.4.



SIGNED	Bin Cool	Consultant (50	05) 466-8120	10-15-00
(This space for	r Federal or State office use)		,	, , , , , , , , , , , , , , , , , , ,
PERMIT NO.		APPROVAL DATE	4/19	/01
Application approve		icant holds legal or equitable title to those rights in the su	abject lease which would entitle the a	applicant to constant a grations
				AFR 19
	is oel Farrell			· ·

MAXXCC

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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

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

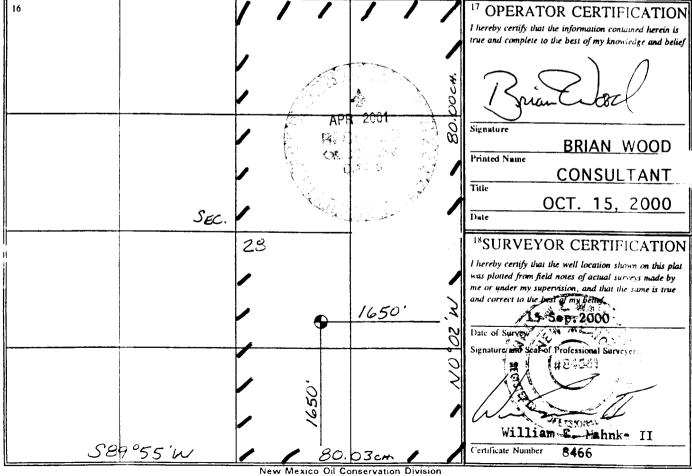
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Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-US-3 (398		7	71599		BASIN DAKOTA 'Pool Name					
Property Code			⁵ Property Name BOLACK						* Well Number	
⁷ OGRID No. 14021			•	Operator Name MARATHON OIL COMPANY					*Elevation 6315	
					10 Surface	Location				
UL or lot no.	Section . 28	Township	Range 11 W	Lot Ida	Feet from the - 1650	North/South line - South	Feet from the · 1650	East/West line	County San Juan	
			11 Bot	tom Hol	e Location I	f Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Соипту	
"Dedicated Acr 320 E/S NO ALLON	<u>- </u>		Consolidatio		I Order No. IS COMPLETIO	ON UNTIL ALL	INTERESTS H	IAVE REEN C	ONSOLIDATED	
						EEN APPROVED			ONSOLIDATED	
16				/	/ / /3		I hereby cert	ify that the informati	RTIFICATION ion contained herein is ny knowledge and belief	



Marathon Oil Company Bolack 28 4 E 1650' FSL & 1650' FEL Sec. 28, 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>	Age	Connections	GL Setting Depth
12-1/4"	8-5/8"	24	J-55	New	8rd, ST&C	325'
7-7/8"	4-1/2"	11.6	K-55	New	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% CaCl₂. Yield = 1.27 cu. ft./sk. Weight = 15.2 lb/gal.



Marathon Oil Company Bolack 28 4 E 1650' FSL & 1650' FEL Sec. 28, 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 $6,000^\circ$ 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% CaCl₂.

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.

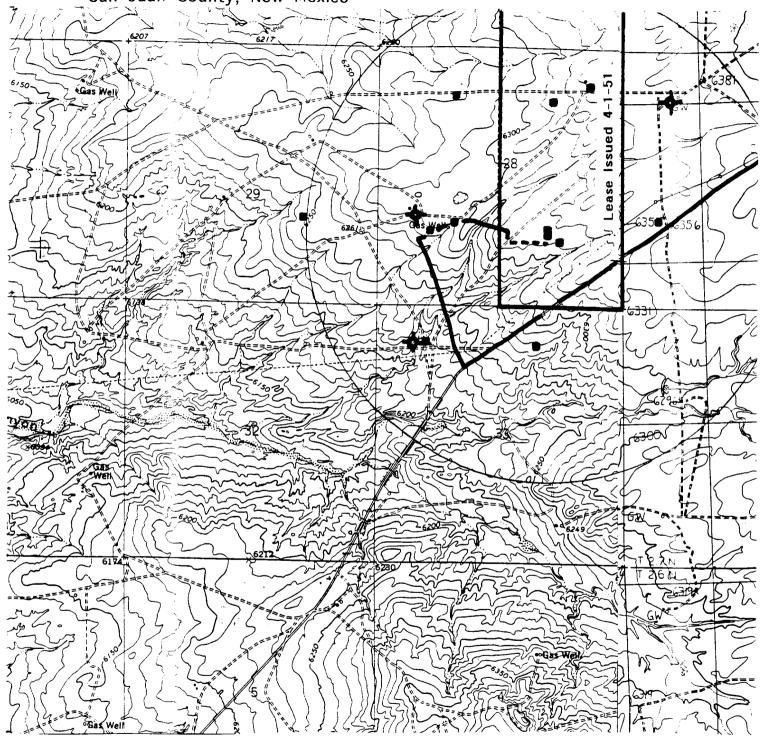


Bolack 28 4 E

1650' FSL & 1650' FEL

Sec. 28, T. 27 N., R. 11 W.

San Juan County, New Mexico



PROPOSED WELL: LEASE BOUNDARY:

EXISTING WELL: • EXISTING ROAD: •

P&A WELL:

PIPELINE & ROAD:

