



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

September 6, 2005

Mark Fesmire
Director
Oil Conservation Division

Marbob Energy Corporation
P. O. Box 227
Artesia, New Mexico 88211-0227

Attention: **Brent May**
Geologist

Administrative Order NSL-5273 (BHL)
(Non-Standard Subsurface Location/Producing Area)

Dear Mr. May:

Reference is made to the following: (i) your application submitted to the New Mexico Oil Conservation Division ("Division") in Santa Fe, New Mexico on August 2, 2005 (*administrative application reference No. pMES0-524943327*); (ii) Mr. Michael E. Stogner's, Engineer with the Division in Santa Fe, telefax for additional information on September 2, 2005; (iii) Mr. Stogner's telephone conversation with Mr. Raye Miller on Friday afternoon, September 2, 2005 and subsequent e-mail containing the necessary information to complete your application; and (iv) the Division's records in Artesia and Santa Fe: all concerning Marbob Energy Corporation's ("Marbob") proposed development of the Delaware formation within a portion of the Sly Hawk State Lease (*New Mexico State Land Office Lease No. V-05920*) underlying the N/2 NW/4 equivalent of Section 3, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico, utilizing horizontal drainhole techniques.

The Division Director Finds That:

- (1) The subject application has been duly filed under the provisions of Division Rules 104.F, 111.A (13), and 111.C (2);
- (2) By Order No. R-11120, issued in Case No. 12116 on January 21, 1999 and made effective on February 1, 1999, the Division created and defined the Southwest Willow Lake-Delaware Pool (**96855**) for the production of oil from the Delaware formation; the horizontal limits for this pool, as currently designated, comprises the following described lands in Eddy County, New Mexico:

TOWNSHIP 25 SOUTH, RANGE 28 EAST, NMPM

| | |
|-------------|---------------------------------|
| Section 3: | Lots 1 and 2, S/2 NE/4, and S/2 |
| Section 4: | SE/4 |
| Section 9: | NE/4 |
| Section 10: | All |
| Section 15: | NE/4; |

- (3) Currently, the Southwest Willow Lake-Delaware Pool and that area within one-mile of the pool boundaries [*see Division Rule 104.A (2) (a)*] are subject to the statewide rules and regulations, as promulgated by Rule 104.B (1), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of a single 40-acre oil spacing and proration unit;
- (4) It is the Division's understanding that Marbob intends to drill its Sly Hawk State Well No. 4 (**API No. 30-015-34242**), from a surface location 330 feet from the North line and 2620 feet from the West line (Lot 3/Unit C) of Section 3, vertically to an approximate measured depth (MD) of 4,388 feet; kick-off to the west and build angle until a 90 degree deviation off of vertical is achieved at an approximate measured depth of 5,138 feet (MD); and continue to drill horizontally for an approximate distance of 1850 feet to a bottomhole location, or end-point, within the Delaware formation at a subsurface location approximately 430 feet from the North line and 330 feet from the West line (Lot 4/Unit D) of Section 3;
- (5) The top of the Delaware formation should be intercepted at an approximate depth of 2,600 feet;
- (6) The proposed 80.64-acre "Project Area", pursuant to Division Rules 111.A (9) and C (3), will be established by combining two standard 40-acre, more or less, oil spacing and proration units in the Undesignated Southwest Willow Lake-Delaware Pool comprising Lots 3 (NE/4 NW/4 equivalent-Unit "C") and Lots 4 (NW/4 NW/4 equivalent-Unit "D") of Section 3;
- (7) From the entry point into the Delaware formation within the vertical wellbore to the kick-off depth and a portion of the curved wellbore will be unorthodox pursuant to Division Rules 104.B (1) and 111.A (13);
- (8) It appearing the applicant has satisfied all of the appropriate requirements prescribed in Rules 111.C (2) and 104.F, the subject application should be approved, further, the aforementioned horizontal drainhole and 80.64-acre project area should continue operating under the provisions contained within this order and all other applicable provisions of Division Rule 111;
- (9) The applicant has satisfied all of the appropriate requirements prescribed in Rules 111.C (2) and 104.F; therefore the subject application based on Marbob's proposed directional drilling plan should be approved; and
- (10) The subject 80.64-acre oil spacing and proration unit/project area is to be governed by the provisions contained within this order and all other applicable provisions of Division Rules 111 and 505.

It Is Therefore Ordered That:

(1) Marbob Energy Corporation ("Marbob") is hereby authorized to directionally drill its Sly Hawk State Well No. 4 (**API No. 30-015-34242**), from a surface location 330 feet from the North line and 2620 feet from the West line (Lot 3/Unit C) of Section 3, vertically to an approximate measured depth (MD) of 4,388 feet; kick-off to the west and build angle until a 90 degree deviation off of vertical is achieved at an approximate measured depth of 5,138 feet (MD); and continue to drill horizontally for an approximate distance of 1850 feet to a bottomhole location, or end-point, within the Undesignated Southwest Willow Lake-Delaware Pool (**96855**) at a subsurface location approximately 430 feet from the North line and 330 feet from the West line (Lot 4/Unit D) of Section 3.

(2) An 80.64-acre Project Area shall will be established by combining Lots 3 and 4 (N/2 NW/4 equivalent) of Section 3.

(3) The operator shall comply with all applicable requirements and conditions set forth in Division Rules 111 and 505.

(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "Mark E. Fesmire / MEF", is written over a horizontal line.

MARK E. FESMIORE, P. E.
Director

MEF/ms

cc: New Mexico Oil Conservation Division – Artesia
New Mexico State Land Office – Santa Fe
Mr. Raye Miller – Marbob Energy Corporation, Artesia