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| | | [D] Other | : Specify | | | |
| 2] | | | EQUIRED TO: - Ch Working, Royalty or C | | | ot Apply |
| | | [B] 🗌 🤇 | Offset Operators, Leas | seholders or Surface C | wner | |
| | | [C] | Application is One W | hich Requires Publish | ed Legal Notice | |
| | | [D] | Notification and/or Co .S. Bureau of Land Management | oncurrent Approval by - Commissioner of Public Lands, | BLM or SLO State Land Office | |
| | | [E] | For all of the above, P | roof of Notification or | • Publication is A | Attached, and/or, |
| | | [F] | Waivers are Attached | | | |
| 3] | | | FE AND COMPLET | | REQUIRED T | O PROCESS THE TYPE |

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

J.S. S. S. J. HALL 7. J. T. U.L. Print or Type Name Signature Аттокис 7 <u>Title</u>
<u>4.16.2010</u>
Date SHILLEMONTAND. COM

e-mail Address



April 16, 2010

Mr. Mark E. Fesmire, Director New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

> Re: Approach Operating LLC Request for Administrative Approval, Unorthodox Well Location WC Tierra Amarilla Mancos Oil Pool (97767)

Dora Spill No. 3 API No. 30-39-30860 2,520' FSL and 2164' FWL (K) Projected Section 32, T28N, R4E Rio Arriba County, New Mexico

Dear Mr. Fesmire:

On behalf of Approach Operating LLC, ("Approach") and pursuant to Division Rule 19.15.15.13 and the applicable statewide rules governing oil well locations (Rule 19.15.15.19.A), we request administrative approval for an unorthodox well location for the Approach Dora Spill No. 3 Well at the surface and bottom-hole locations reflected above.

This straight-hole well will be drilled to a depth sufficient to test the Mancos Shale formation within the boundaries of the WC Tierra Amarilla Mancos Oil Pool and is defined as a wildcat under the Division's rules. The statewide rules for wildcat oil wells currently provide that wells shall be drilled no closer than 330' to the outer boundary of a standard 40-acre spacing unit. The C-101 along with the C-102 plat showing the NE/SW spacing unit and the proposed unorthodox surface and bottom hole locations for Dora Spill No. 3 are attached as Exhibit A.

Approach seeks an exception from the applicable well location rules for the Dora Spill No. 3 Well for the following reason: (1) The well is located in an unsurveyed area within the Tierra Amarilla land grant. The section/township/range

Post Office Box 2307 Santa Fe, New Mexico 87504-2307 6301 Indian School Road NE, Suite 400 Albuquerque, New Mexico 87110 Telephone (505) 884-4200 • Fax (505) 888-8929

Post Office Box 36210 Albuquerque, New Mexico 87176-6210 Mr. Mark E. Fesmire, Director April 16, 2010 Page 2

description of the location is based on unofficial, projected township and section lines from an adjoining survey and therefore, it is not possible to state the proximity to actual section lines or quarter-quarter subdivisions boundaries with certainty. However, the location descriptions by latitude/longitude and by reference to the New Mexico State Plane Coordinate System referenced on the C-102 are accurate. (2) The well has also been located in conformance with the Design and Operational Standards for Oil and Gas Development of Rio Arriba County Ordinance No. 2009-01. Among other matters, these standards take into consideration terrain limitations, access roads, proximity to water features, and compatibility with existing land uses. Many of these matters are demonstrated by the enclosed aerial photo of the Dora Spill No. 3 Well (Exhibit "B").

The location for this well is not located closer than 660' to any existing well or a well that is known to be planned. Approach Operating LLC's affiliate company, Approach Oil and Gas Inc., owns or controls 100% of the leasehold working interest in each of the adjoining spacing units and Approach Operating would be the operator of each of those units. Further, the mineral interest ownership underlying the NE/SW of projected Section 3 and each of the surrounding spacing units is identical. Consequently, no further notice is indicated under the Division's rules (See Rule 19.15.4.12.A.2).

The Division's Administrative Application Checklist is enclosed.

Thank you for your consideration of this request. Should more information be required, please do not hesitate to contact me.

Very truly yours,

MONTGOMERY & ANDREWS, P. A.

1. I won -lall

J. Scott Hall Attorneys for Approach Operating LLC

JSH:kw Enclosures: Exhibit A C-102 Exhibit B Aerial Photo Administrative Application Checklist

cc: Steve Hayden, NMOCD-Aztec Approach Operating LLC Rio Arriba County Planning and Zoning Dept.

00180517

District I: 1625 N ID anch Dr, Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-101 June 16, 2008

Submit to appropriate District Office

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | | Operator Name a Approach Opera | ting LIC | | 248343 | ² OGRID Numbe | a | |
|--|---------|------------------------------|-----------------------------------|-------------------------|-------------------------------|--------------------------------------|---|--------------------------------------|-------------|
| | | | 6500 West Freewa Fort Worth, T | y, Suite 800 X 76116 | | 30-39. | 308100 | | |
| · Property Code 37930 | | | | | Property Name Dora Spill | | | "We | 11 No. 3 |
| ⁹ Proposed Pool 1 WC; Mancos | | | | | ¹⁰ Proposed Pool 2 | | | | |
| | | | | | Surface Lo | cation | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| K | 32 | 28N | 04E | | 2520 | NORTH | 2164 | WEST | RIO ARRIBA |
| ⁸ Proposed Bottom Hole Location | | | | | Hole Location | If Different Fr | rom Surface | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| Additional Well Information | | | | | | | | | |
| ¹¹ Work Type Code | | 12 Well Type Code | : | 13 Cable/Rotary | | ¹⁴ Lease Type Code | ¹⁵ Grou | und Level Elevation | |
| N | | 0 | | ROTARY | | P | 1 | 7305 40' | |
| 16 Multiple | | ¹⁷ Proposed Depth | | 18 Formation | | | ¹⁹ Contractor ²⁰ St | | |
| | | | 2000' ** | GRANERO | | TBD | | On receipt of all required approvals | |

²¹ Proposed Casing and Cement Program

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|---------------|-------------|--------------------|---------------|-----------------|---------------|
| 12 1/4" | 9 5/8" | 36.0 # | 350' | 210 | Surface |
| <u>8 3/a"</u> | 4 1/2" | 10.5 # | 2000' | 500 | Surface |
| | | | | | |
| | | | | | |
| | | | | | |

²² Describe the proposed program If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

(1) Shafco 11" Double Ram 3000# LWS

(1) Grant 11" rotating head, 3000#

(1) 5000# choke manifold

(1) Koomey 3 station 3000# w/air hydraulic pump

(4) 10 gallon bottles

** The proposed depth is 100' below the base of the Mancos Shale or 2000', whichever depth is achieved first.

See attached C.O.A.

| ²³ I hereby certify that the information gr best of my knowledge and belief. | ven above is true and complete to the | OIL CONSERVATION DIVISION | | |
|--|---------------------------------------|---|-----------------------------|--|
| Signature: RAMA | | Approved by: | | |
| Printed name: Brice A. Morgan | | Title DEPUTY OIL & GAS INSPECTOR, DIST. | | |
| Title: Landman | | Approval Date 3 0 2009 | Expiration Date [-30.201] | |
| E-mail Address bmorgan@approachresc | purces.com | | | |
| Date: 11-23-09 Phone. 817-989-9000 | | Conditions of Approval Attached | | |
| NOV 3 0 2009 | to bi | HOLD CIERT N.56 | | |

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3

| District I 1625 N. French Dr., Hobby <u>District II</u> 1301 W. Grand Avenue, A <u>District III</u> 1000 Rio Brezzes Rd., Azte <u>District IV</u> 1220 S. St. Francis Dr., Sa <u>API Nu</u> <u>Property Code</u> | ELL LOC | gy, Mine OIL CC 122 | ONSERVAT 20 South St. Santa Fe, N AND ACR | Resources Depart ION DIVISION Francis Dr. M 87505 EAGE DEDIC. | ATION PLA | ubmit to A | Appropria State Fee AME | Form C-102 October 12, 2005 Ate District Office Lease - 4 Copies Lease - 3 Copies NDED REPORT | |
|---|---------------------|---------------------------|--|---|---------------------------|--------------------|--|--|--|
| 37930 | | | Dor | a Spill H | | | | | Elevation |
| 248343 | | | Appro | • | ating LLC | | | | -01 7305.4 |
| | | | | ¹⁰ Surface | Location | | | | |
| UL or lot no. Se K ##3 | 2 **28N | Range **04E | Lot Idn | Feel from the 2520 | North/South line SOUTH | Feet from the 2164 | Eas WE | t/West line ST | County Rio Arriba |
| | | | om Hol | | f Different Fron | | | | |
| UL or tot so. Se | ction Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | Eas | t/West line | County |
| ¹³ Dedicated Acros 11 ¹³ Je | pint or Infill 14 C | unsolidation Co | | er No. | | | | | |
| - Deputcated Arros - 34 | onn or iunu | onsongation Co | | ler 140, | | | | | |
| No allowable will b | e assigned to the | is completio | n until all | interests have | been consolidated of | or a non-standa | rd unit has | s been ap | proved by the |
| division. | - | • | | | | | | • | • |
| ** Projectio | on within | the Tie | irra A | marilla 1 | land Grant | 70 | PFPATC | DR CFR | TIFICATION |
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| | | 2520' | | | | Certificate N | 0 | 13916 | HO JAN |
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| Latitude, lo | | | nces f | rom proje | ected section | on lines | provid | led by | Approach |

Operating LLC.

APPROACH OPERATING, LLC OPERATIONS PLAN DORA SPILL NO. 3

I. Location:

LAT : 36.61577 N LONG : -106.53700 W Rio Arriba County, New Mexico

Field: Wildcat Surface: Fee Date: 11-2-09

Elev: 7305.40'

Δ

II. Drilling

A. Contractor: TBD

B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with air or air/mist.

C. Minimum Blowout Control Specifications: (See attached BOP System Schematic)

Double ram type 3000 psi working pressure BOP with a rotating head. See the attached Exhibit # 1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1500 psi.

The blind ram will be hydraulically activated and checked for operational readiness each time pipe is pilled out of the hole. All check of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

No over pressured zones are expected in this well. No H2S zones expected, but compliance packs will be on location.

III. Logging program: Induction / GR and density logs at TD.

IV. Materials

A. Casing Program:

| Hole Size | Depth | Casing Size | Wt & Grade |
|-----------|-------|-------------|------------------|
| 12-1/4" | 350' | 9-5/8" | 36# J- 55 |
| 8-3/4" | 2000' | 4-1/2" | 10.5# J-55 |

B. Float Equipment (See attached "Generic Well Schematic")

a. Surface Casing: Notched collar on bottom and 3 centralizers on the bottom 3 joints.

b. Production Casing: 4-1/2" whirler type cement nosed guide shoe and a float collar on top of the shoe joint. Centralized with bow spring centralizers

Cementing: V.

Surface Casing: 9-5/8" 32.3 Jb/ft H-40 set to 350". Circulate Cement to Surface. .

Cement 0-350' Fluid 1: Water Based Spacer Water

| Water | Fluid Density: | 8.330 |
|---|------------------|---------------------------|
| lbm/gal | Fluid Volume: | 10 bbl |
| Fluid 2: Lead Cement | | |
| Premium Cement lbm/gal | Fluid Weight | 15.600 |
| 94 lbm/sk Premium Cement (Cement) | Slurry Yield: | 1.180 ft ³ /sk |
| 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Gal/sk | • | 5.238 |
| 2 % Calcium Chloride (Accelerator) | Top of Fluid: | 0 ft |
| | Calculated Fill: | 350 ft |
| | Volume: | 42.139 bbl |
| | Proposed Sacks: | 210 sks |
| Fluid 3: Water Based Spacer | | |
| Water Displacement lbm/gal | Fluid Density: | 8.330 |
| Fluid Volume: | 23.966 bbl | |
| | | |

• Production Casing: 4-1/2" 10.5 lb/ft 1-55 casing set to TD. Circulate TOC to' Surface --

Cement Fluid Instructions Fluid 1: Water Based Spacer Fluid Density: 8.330 Water lbm/gal

Fluid Volume: 20 bbl

| Fluid 2: Lead Cement 50/50 Poz Premium 0.4 % Halad(R)-344 (Low Fluid Loss Control) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Gal/sk | Fluid Weight Slurry Yield: Total Mixing Fluid: | 13 lbm/gal 1.436 ft ³ /sk 6.193 |
|---|---|--|
| 5 lbm/sk Gilsonite (Lost Circulation Additive) | Top of Fluid: Calculated Fill: Volume: Proposed Sacks: | 0 ft 3500 ft 156.266 bbl 500 sks |
| Fluid 3: Water Based Spacer Water Displacement Ibm/gal | Fluid Density: Fluid Volume: | 8.330 31.197 bbl |

• The wells will have 40' of 14" conductor set. Then a 12-1/4" hole will be drilled to about 350' when 9-5/8" surface casing will be set and cemented. We will drill out with a 8-3/4" bit using

MULTI-POINT SURFACE USE PLAN

1. Existing Roads and New Roads:

Existing roads vary in condition, but all are drivable by pickup. Initially, Approach will crown and ditch these roads while providing for drainage via ditch relief and rolling water bars placed at a maximum 300 feet apart. During the initial phase of construction and drilling, roads will be developed using native materials and rock where necessary to prevent rutting or stormwater run-on from eroding road bed. Roads will be less than 25 feet wide with an additional 7.5 feet on each side for ditching. Rolling water bars will be installed with at least half their height in the cut and skewed to drain. If the well is to be abandoned, the road will be left in a condition that is at minimum comparable to the existing condition or is reclaimed. Maintenance will be conducted as necessary during all of Approach's operations. Roads will be kept in a serviceable condition that provides the land owner and the Approach with reasonable and emergency access.

2. Location of Existing Wells:

1

There are no existing wells in the vicinity of the Dora Spill No. 3. See attached aerial photo.

3. Location of Production Facilities:

In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated after completion.

4. <u>Water Supply:</u>

ι

Water for drilling and completion will be purchased from local sources.

- 5. Methods of Handling Waste Disposal:
 - a. The drill cuttings, fluids and completion fluids will be placed in the above ground steel tanks. All cuttings and fluids will be disposed of at a NMOCD permitted facility. Upon completion, the pad will be leveled, contoured and reseeded with the appropriate seed mixture.
 - b. All garbage and trash will be placed in a metal trash basket. It will be hauled off and dumped in an NMOCD permitted facility upon completion of operations.
 - c. Portable toilets will be provided and maintained during drilling operations.
- 6. Ancillary Facilities:

Ancillary facilities are to be based on well productivity.

7. Well Site Layout:

The well site will encompass an area of 200'X 275' as shown on the attached aerial photo.

8. Plans for Restoration of Surface:

When the well is abandoned the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with appropriate seed mixture.

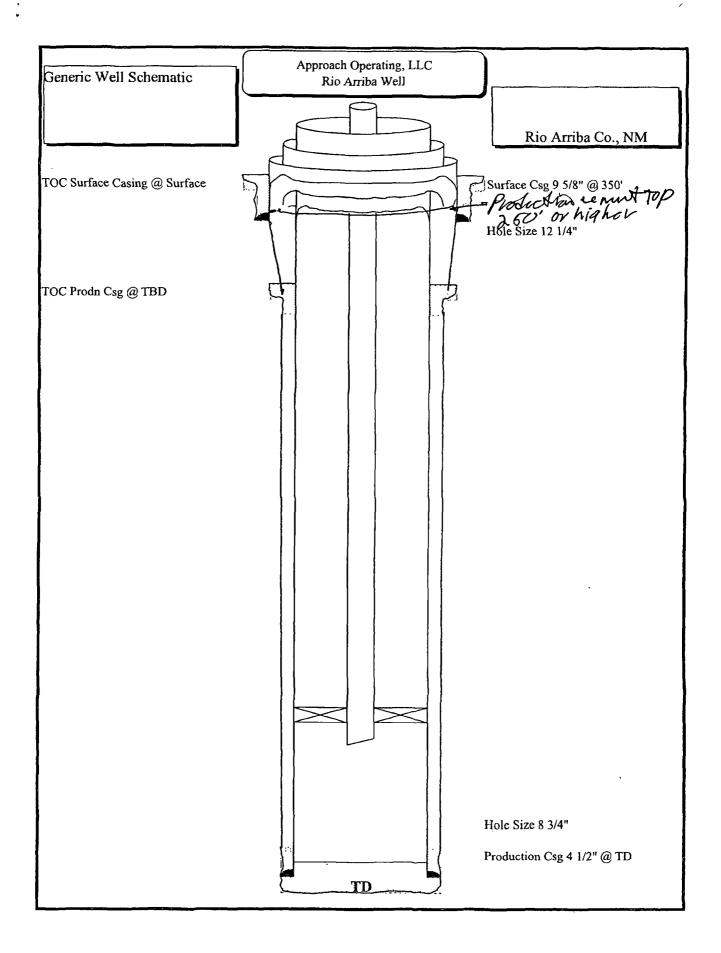
If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted to blend with the natural color of the landscape.

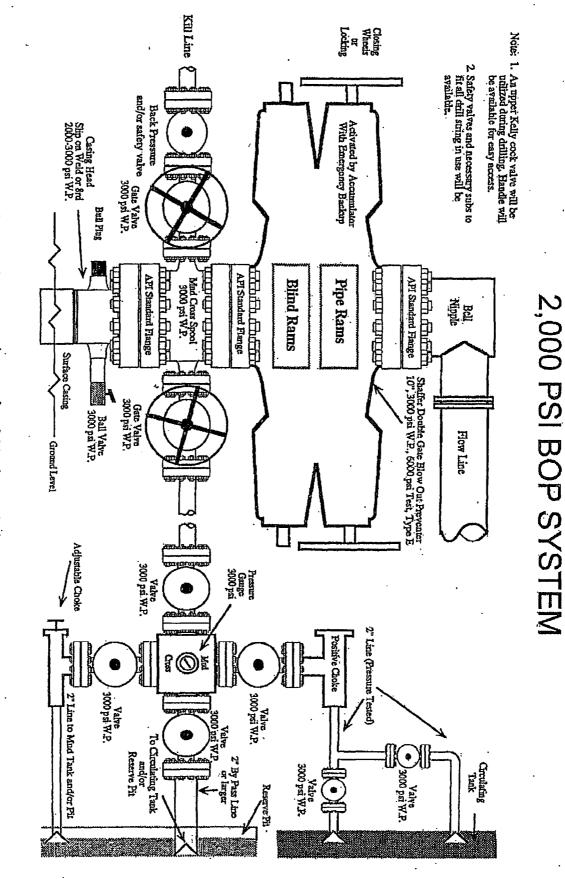
9. Lessee's or Operator's Representative:

Brice A. Morgan Approach Operating, LLC 6500 West Freeway, Suite 800 Fort Worth, Texas 76116 Phone: (817) 989-9000

Br .Morgan

Landman





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.



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 condition 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. Executed this 23rd day of November, 2009.

Approach Operating, LLC

Brice A Morgan Landman

WC Tierra Amarillo Mancos Conditions of Approval

In the Tierra Amarilla area of interest the first good aquifer appears to be the uppermost sand of the Dakota Formation known as the Two Wells Member. The regulatory definition of the vertical limits of the Basin Dakota gas pool includes the Graneros Formation.

Because the depth to the Dakota Formation may vary due to topographic and structural changes from one site to another the TD for the wells assigned to the WC Tierra Amarilla Mancos Oil Pool (97767) is to be limited to the base of the Greenhorn Member of the Mancos Formation or shallower.

This will provide a good barrier between the upper Dakota Formation aquifer and perfed and stimulated zones in the Mancos.

Cement volume for the production casing appears to be inadequate to circulate to surface. Please include enough cement to circulate hole, plus 50% excess. If cement does not circulate, a CBL will be required to show cement top and quality prior to completion.

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PETRA 9/18/2009 11:09:07 AM