LOGGED IN 4-11-10

TYPE NSL

PTG-W APP NO. 1010942616

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST 30-031-308

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	[D]	☐ No	otification and/or Co	ncurrent Approva - Commissioner of Public L	ll by BLM or SLO ands, State Land Office	
	[C]	□ A ₁	pplication is One Wh	nich Requires Pub	lished Legal Notice	
	[B]	_ O	ffset Operators, Leas	eholders or Surfa	ce Owner	
[2]	NOTIFICAT [A]	YION RE	QUIRED TO: - Che orking, Royalty or O	ck Those Which everriding Royalty	Apply, or Does Not Apply Interest Owners	
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J. SCOTT HALL

Cell:

HECEIVED OCD

Email: shall@montand.com

(505) 670-7362

Reply To: Santa Fe Office 2010 APR 16 P 2: 27

www.montand.com

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)

Edward Spill No. 4 API No. 30-39-30863

2,613' FSL and 279' FWL (E) Projected Section 31, 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 Edward Spill No. 4 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 SW/NW spacing unit and the proposed unorthodox surface and bottom hole locations for the Edward Spill No. 4 are attached as Exhibit A.

Approach seeks an exception from the applicable well location rules for the Edward Spill No. 4 Well for the following reason: (1) The well is located in an unsurveyed area within the Tierra Amarilla land grant. The section/township/range

REPLY TO:

325 Paseo de Peralta Santa Fe, New Mexico 87501 Telephone (505) 982-3873 • Fax (505) 982-4289

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 Edward Spill No. 4 (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 SW/NW of projected Section 31 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 wy dall

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.

00175404

*District I - 1625 N French Dr., Hobbs, NM 88240

District II 1301 W Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

State of New Mexico Energy Minerals and Natural Resources

June 16, 2008

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

Form C-101

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23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:							OIL CONSERVATION DIVISION Approved by:					
3/1/r							to the					
Printed name: Brice A. Morgan						Title:	Title: DEPUTY OIL & GAS INSPECTOR, DIST. &					
Title: Landman						Appro	oval Date	10V 3	0 2009	Expiratio	n Date:	106.05
E-mail Addre	ess: bmorga	n@approach	esources.com									
Date	11-23	3-09	Phone. 817-9	989-9000		Conditions of Approval Attached					_	

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W)

MOLD C104 FOR NSL

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Bruzos Rd., Axtee, NM 87410 Distantant YV

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fa NIM 97505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

1220 S. St. Francis	Dr., Santa F	c, NM 8750	5		Santa Fr	e, mi	VI 0/303			X AME	ENDED	REPORT	
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Latitude -36.6156 North Longitude - -106.5620 West

Latitude, longitude & distances from projected section lines provided by Approach Operating LLC.

APPROACH OPERATING, LLC OPERATIONS PLAN EDWARD SPILL NO. 4

I. Location:

LAT: 36.6156 N

LONG: -106.5617 W

Rio Arriba County, New Mexico

Field: Wildcat

Elev: 7317.39'

Date: 10-15-09

Surface: Fee

II. Drilling

A. Contractor: TBDB. 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

V. Cementing:

• Surface Casing: 9-5/8" 32.3 lb/ft H-40 set to 350'.

Cement 0-350'

Fluid 1: Water Based Spacer

Water Fluid Density: 8.330 lbm/gal

Fluid Volume: 10 bbl

Fluid 2: Lead Cement

Premium Cement Fluid Weight 15.600

lbm/gal

94 lbm/sk Premium Cement (Cement) Slurry Yield: 1.180 ft³/sk

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Total Mixing Fluid: 5.238

Gal/sk

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 Fluid Density: 8.330

lbm/gal

Fluid Volume:

23.966 bbl

• Production Casing: 4-1/2" 10.5 lb/ft J-55 casing set to TE Civcolute Cement to Sirface

Cement 200 a higher TOC.

Fluid Instructions

Fluid 1: Water Based Spacer

Water Fluid Density: 8.330

lbm/gal

Fluid Volume: 20 bbl

Fluid 2: Lead Cement

50/50 Poz Premium Fluid Weight 13 lbm/gal 0.4 % Halad(R)-344 (Low Fluid Loss Control) Slurry Yield: 1.436 ft³/sk

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Total Mixing Fluid:

Gal/sk

5 lbm/sk Gilsonite (Lost Circulation Additive) Top of Fluid: 0 ft

Calculated Fill: 3500 ft

Volume: 156.266 bbl

Proposed Sacks: 500 sks

Fluid 3: Water Based Spacer

Water Displacement Fluid Density: 8.330

lbm/gal Fluid Volume: 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:

There are no existing wells in the vicinity of the Edward Spill No. 4. 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. Water Supply:

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.

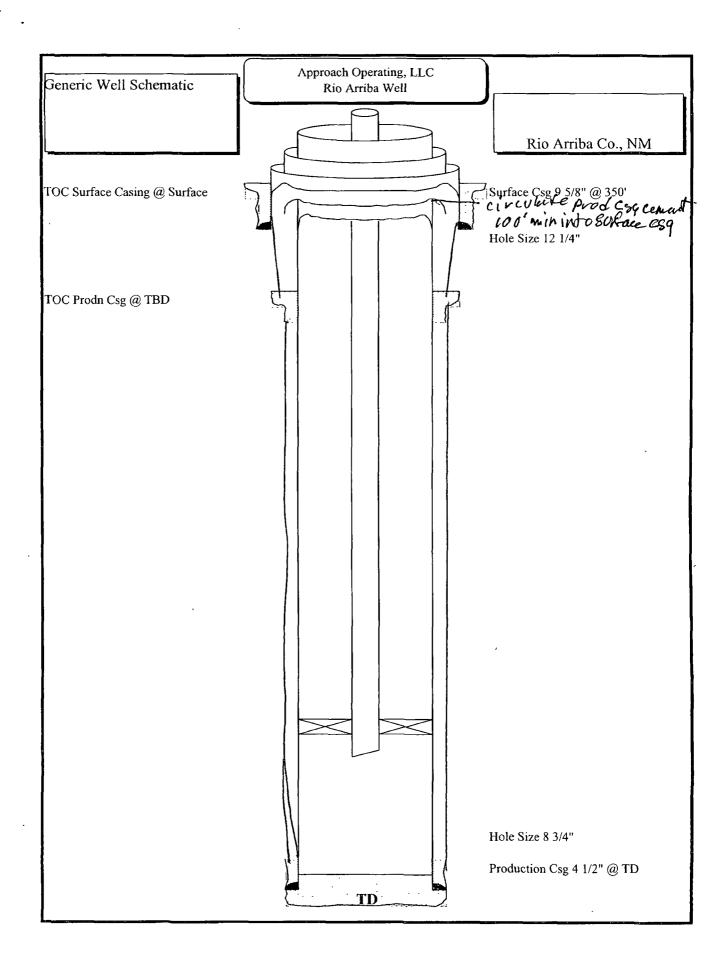
If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted to blend with the natural color of the landscape.

9. Lessee's or Operator's Representative:

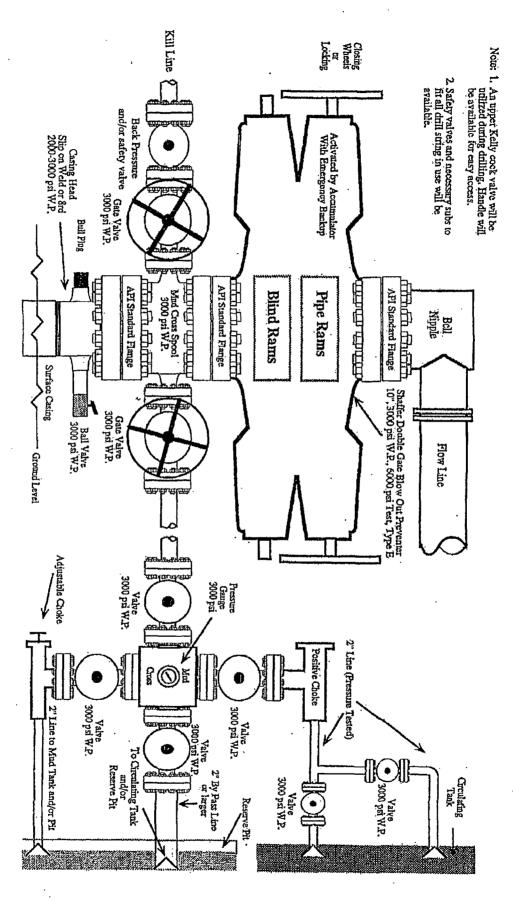
Brice A. Morgan Approach Operating, LLC 6500 West Freeway, Suite 800 Fort Worth, Texas 76116 Phone: (817) 989-9000

Brice A. Morgan

Landman



2,000 PSI BOP SYSTEM



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.

Operator Certification Statement

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.

