.re in	4-19-10	SUSPENSE	ENGINEER DB	LOGGED IN 4-19-10	TYPE NSL	APP NO. 1010942009
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CERTIFICATION: I hereby certify that the information submitted with this application for administrative [4] 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.D.T.+|ALL7.1.T.ullPrint or Type NameSignature **А**ТТОКИС́ 7 4.16.2010 Title Date SHILLLEMONTAND. COM

e-mail Address



J. SCOTT HALL RECEIVED OCD Cell: (505) 670-7362 RECEIVED OCD Email: shall@montand.com Reply To: Santa Fe Office 2010 APR 16 P 2: 26 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)

Dora Spill No. 4 API No. 30-39-30854 359' FSL and 1374' FWL (N) 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. 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 SE/SW spacing unit and the proposed unorthodox surface and bottom hole locations for the Dora Spill No. 4 are attached as Exhibit A.

Approach seeks an exception from the applicable well location rules for the Dora 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

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. 4 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 SE/SW of projected Section 32 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.

7. I con chall

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.

00175403

District I. 1625 N. French Dr., Hobbs, NM 882 District II	540 State of New Mexico Energy Minerals and Natural Resource	Form C-101 es June 16, 2008
1301 W. Grand Avenue, Artesia, NM District III	Oil Conservation Division	Submit to appropriate District Office
1000 Rio Brazos Road, Aztec, NM 8 District IV 1220 S St. Francis Dr., Santa Fe, NM	1220 South St. Francis Dr.	AMENDED REPORT
	OR PERMIT TO DRILL, RE-ENTER, DEEPEN	, PLUGBACK, OR ADD A ZONE
	¹ Operator Name and Address Approach Operating, LLC	² OGRID Number 248343
	6500 West Freeway, Sune 800 Fort Worth, TX 76116	30-39.30754
³ Property Code 37930	³ Property Name Dora Spill	⁶ Well No. 4

			WC; Mancos								
				·	⁷ Surface Lo	cation					
UL or lot no	Section 32	Township	· ·		Feet from the	North/Sout		Feet from the		West line /EST	County RIO ARRIBA
<u>/</u>							L"				
			<u>Prop</u>	osed Bottom	Hole Location	If Differe	nt Froi	m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the North/South line Feet from the		East/	West line	County		
		I	<u> </u>	Addit	tional Well I	nformati	ion		1	k	
¹¹ Work	Type Code N	-	¹² Well Type Code O	2	¹³ Cable/Rotary ROTARY]4	Lease Type Code P		¹⁵ Grou	nd Level Elevation 7255 50'
16 N	luttiple		¹⁷ Proposed Depth 2000' **	· · · · · · · · · · · · · · · · · · ·	¹⁸ Formation GRANEROS			¹⁹ Contractor TBD			⁰ Spud Date of all required approvals

¹⁰ Proposed Pool 2

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
<u> 12 ¼" </u>	9.5/8"	36.0 #	350'	210	Surface
<u> </u>	<u> 4 ½" </u>	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 conditions of approval

Proposed Pool 1

²³ I hereby certify that the informati best of my knowledge and belief.	on given above is true and complete to the	OIL CONSERVATION DIVISION			
Signature, RAMA		Approved by:			
Printed name Brice A. Morgan		Title:			
Title: Landman		Approval DatAOV 3 0 2009 Expiration Date: 1130/2011			
E-mail Address bmorgan@approad	thresources com				
Date: 11-23-09	Phone: 817-989-9000	Conditions of Approval Attached S ASLD C104 FCR_NEL			
		6 NOV 3 0 2009			

\$XV

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>Oistrict II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		0	OIL C		l Resources Depar ION DIVISIOI Francis Dr.		Submit to .	Appropri State Fee	Form (October 12, ate District (2 Lease - 4 (2 Lease - 3 (2 ENDED REJ	, 2005 Office Copies Copies	
			WELL LC			EAGE DEDIC		the second s			
30-03 Property (3793		85'		² Pool Cod 767 Dora S	⁵ Property 5 Spill Prope	-	3 Pool No Amarilla		1	POO1 Well Number	#4
2483.	23			App	Operator i oroach Oper				7358	⁹ Elevation	5.51
					¹⁰ Surface				L		
UL or lot no.	Section **32	Township **28	Range N **04E	Lot Id		North/South line South	Feet from the 1374	Eas We	t/West line	(Rio Arr	iba
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UL or lot no.	Section	Township	Range	Lot Id		North/South line	Feet from the	Eas	t/West line		County
¹² Dedicated Acres 40	¹³ Joint of	 r Infill	¹⁴ Consolidation	Code 15 C	Drder No.			I			
division.						been consolidated					
	,			-			to the best of owns a work the proposed location purs interest, or to heretofore en Signature Frinted Nan Printed Nan I BSUR I hereby of was plotte me or und and coffe	iny browledge a ng interest or with bottom hole loca is a voluintary poor mered by the divi- mered by the divi- ce. A. I CEYOF SVEYOF certify that the certify that the der my super cit to, the bes for the the super-	nd belief, and ti ileased mineral atton or has a r ct with an owne lung agreement ston Morga R CERT ae well loca notes of ac vision, and tof my beli	uht,	n either including t at this or working ooling order
. 1374 Latitude		359	(a Spill 979 Nor	_ [Date of Su Signature a Certificate I	Ney and Seal of the Other Humber	E 292 0 1392		

Longitude - -106.53989 West

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

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

APPROACH OPERATING, LLC OPERATIONS PLAN DORA SPILL NO. 4

Date: 11-23-09

Field: Wildcat Surface: Fee

Location:

Elev: 7255.50'

II. Drilling

I.

A. Contractor: TBD

B. Mud Program:

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

LAT: 36.60979 N LONG: -106.53989 W

Rio Arriba County, New Mexico

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:

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

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	U	
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	Total Mixing Fluid:	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	Fluid Density:	8.330
lbm/gal		
Fluid Volume:	23.966 bbl	
• Production Casing: 4-1/2" 10.5 lb/ft J-55 Circulate cement rosurfa	casing set to TD	
Cement		
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 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 ٠ 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 Dora 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'.

8. Plans for Restoration of Surface:

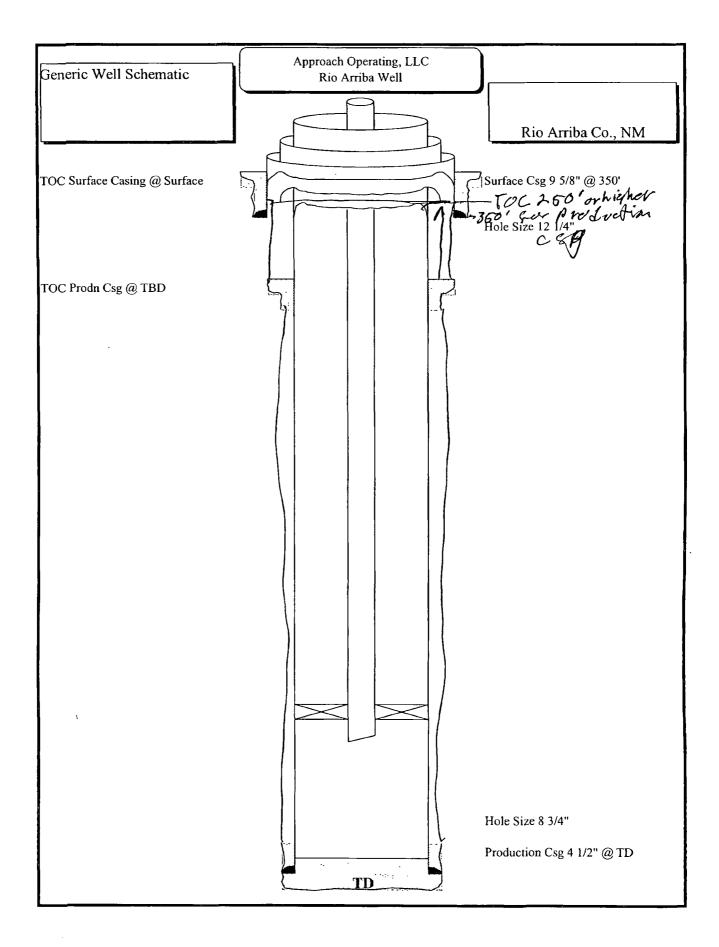
When the well is abandoned the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with appropriate seed mixture.

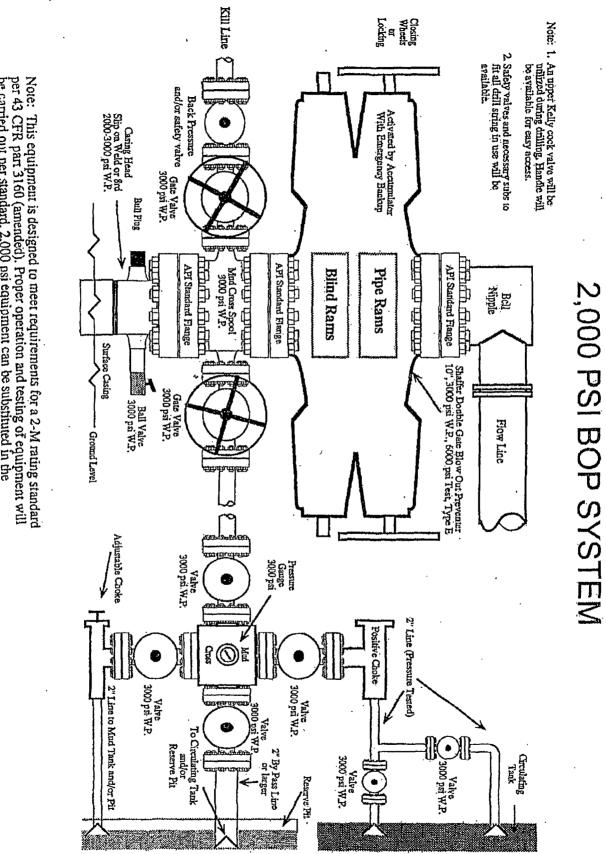
If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted to blend with the natural color of the landscape.

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





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.

WC Tierra Amarillo Mancos Conditions of Approval

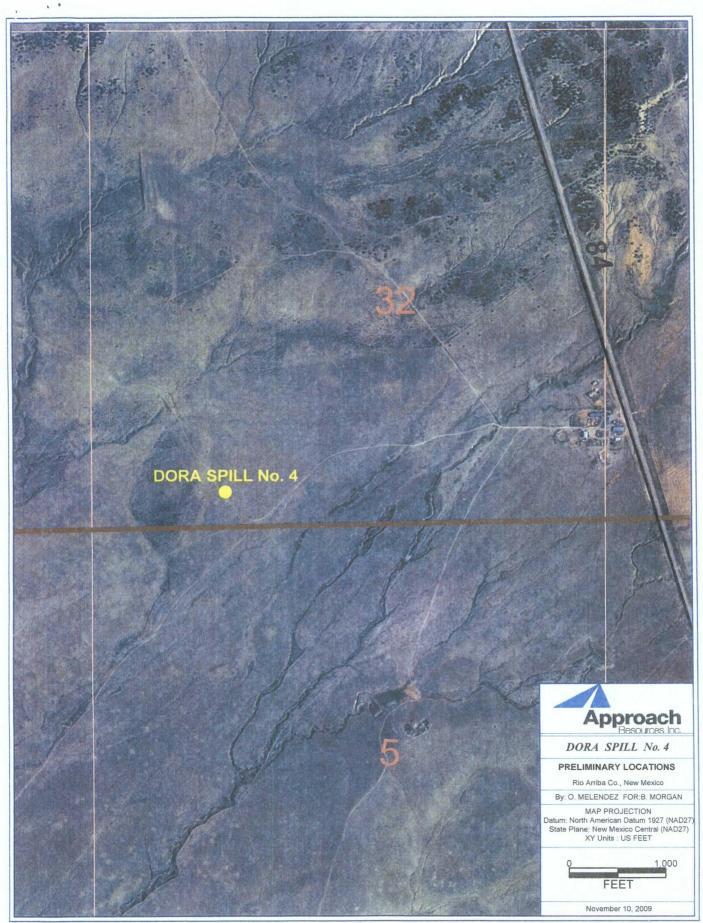
In the Tierra Amarilla area of interest the first good aquifer appears to be the uppermost sand of the Dakota Formation known as the Two Wells Member. The regulatory definition of the vertical limits of the Basin Dakota gas pool includes the Graneros Formation.

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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