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 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 Submit to appropriate District Office

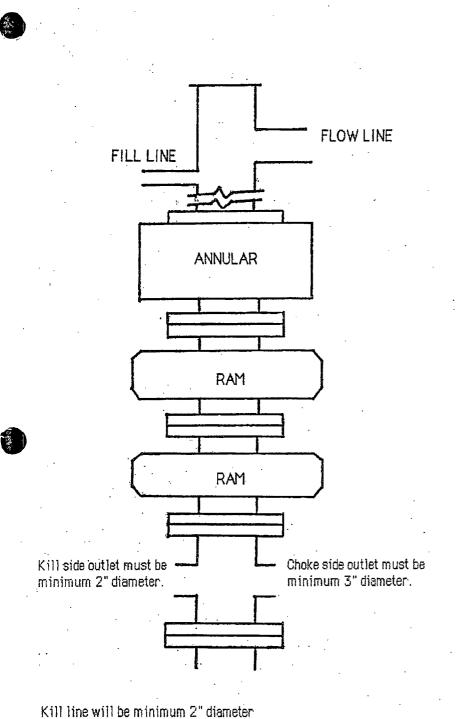
AMENDED REPORT

	4CK, 0			e and Address					<sup>2</sup> OGRID Number	r	
<sup>1</sup> Operator Name and Address APPROACH OPERATING, LLC								248343			
6300 RIDGELEA PLACE, SUITE 1107 FT. WORTH, TX. 76116								API Number 30 – 039			
Property Code Property						Vame		1 30 - 039	<sup>6</sup> Wel	l No.	
					ANTHONY				1		
<sup>9</sup> Proposed Pool I WC28N4E17 MANCOS						<sup>10</sup> Proposed Pool 2					
<sup>1</sup> Surface	Locatio	n						_			
UL or lotno. L'	Section 17	Township 28 N	Range 4 E	Lot Idn	Feet fiv 160		Nouh/South line SOUTH	Feet from the 1100	East/West linc WEST	County RIO ARRIBA	
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UL or lotno.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	Eas¢West Ine	County	
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	TypeCode N		Well TypeCo O	ode	<sup>13</sup> Cable ROT	/Robay ARY	Ţ,	Lease Type Code P		nd Level Elevation 7,751	
	iultiple N		Proposed De 6,000'	քնհ	ili <sup>18</sup> Founation PRECAMBRIAN			Contractor ATTERSON-UTI		<sup>20</sup> Spud Date UPON APPROVAL	
Depth to Grou	indwater			Distance fr $>1.000^{\circ}$	om nearest fre	sh water v	well	Distance from no		nearest surface water	
<u>it:</u> Liner:	Synthetic d-Loop Syst	2 12 mils th em	ick Clay 🗌	Pit Volune: 4	1 <u>.000</u> bbls	Ľ	Drilling <u>Method:</u> Fresh Water 5		el/Oil-basedG	as/Air_X	
<sup>1</sup> Propos	ed Casi	ng and Ce	ement Prog	ram					· ·		
Hole S	ize		ng Size			Se	tting Depth	Sacks of O	ement	nt Estimated TOC	
12-1	/4"	9-:	5/8"	32.3			350'	210		SURFACE	
<u>8-3/</u>	4"	4-	1/2"	10.5			6,000'	<u>1,500</u> <u>SU</u>		SURFACE	
	blowout pre	evention prog	f this application ram, if any. Us				the data on the p	resent productive 2	zone and proposed r	new productive zo	
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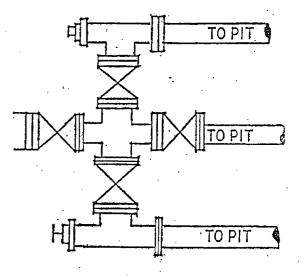
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TYPICAL BOP STACK & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available. Safety valve and subs will fit all drill string connections in use. All BOPE connections subjected to well pressure will be flanged, welded, or clamped.





PETRA 6/18/2008 10:22:28 AM

District J 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III Nio Brazos Road, Aztec, NM 87410 Net IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

# Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

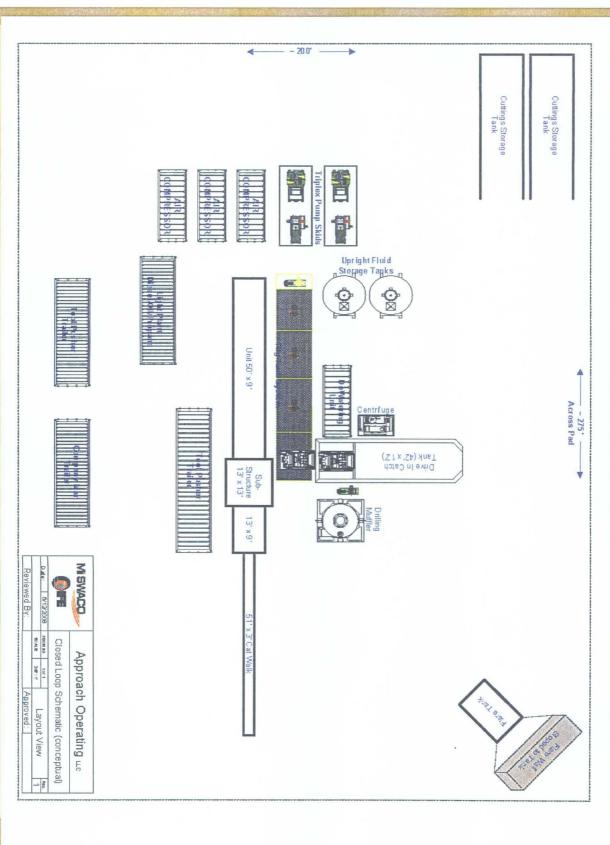
Operator:Approach Operating, LLC	OGRID #:248343
Address:6500 West Freeway, Suite 800 Fort Worth, TX 76116	
Facility or well name: <u>Anthony Garcia No. 1</u>	
API Number:30-039	OCD Permit Number:
U/L or Qtr/Qtr Section7 Township2	28N_Range4ECounty: <u>Rio Arriba</u>
Center of Proposed Design: Latitude	Longitude NAD: 🕅 1927 🗌 1983
Surface Owner: 🗌 Federal 🗌 State 🔀 Private 🗋 Tribal Trust or Indian .	Allotment
<b><u>Pit</u>:</b> Subsection F or G of 19.15.17.11 NMAC	Closed-loop System: Subsection H of 19.15.17.11 NMAC
Temporary: Drilling Diworkover	Drying Pad Tanks Haul-off Bins Other
Permanent 🗌 Emergency 📋 Cavitation	Lined Unlined
Lined 🗌 Unlined	Liner type: Thickness <u>N/A</u> mil LLDPE HDPE PVC
Liner type: Thicknessmil	Other
Other String-Reinforced	Seams: 🗌 Welded 🗋 Factory 🗍 Other
Seams: 🗋 Welded 🗋 Factory 🗋 Other	Volume: <u>N/A</u> bbl <u>N/A</u> yd <sup>3</sup>
Volume:bbl Dimensions: Lx Wx D	Dimensions: LengthN/Ax WidthN/A
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC
Volume:bbl	Chain link, six feet in height, two strands of barbed wire at top
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and
Tank Construction material:	four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other
□ Visible sidewalls and liner	Monthly inspections
□ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC
□ Other	12'x24', 2' lettering, providing Operator's name, site location, and
Liner type: Thickness mil 🗍 HDPE 🗋 PVC	emergency telephone numbers
Other	Signed in compliance with 19.15.3.103 NMAC
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.
of approval.	Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for -consideration of approval.
	Exception(s): Requests must be submitted to the Santa Fe

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 5.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed- p system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	🗌 Yes 🗌 No
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ☐ No ☐ NA
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ☐ No ☐ NA
<ul> <li>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗋 No
Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes No
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:       Subsection B of 19.15.17.9 N         Instructions:       Each of the following items must be attached to the application.       Please indicate, by a check mark in the box, that the do attached. <ul> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.15 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.15 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul> Previously Approved Design (attach copy of design)     API Number:       or Permit Number:	cuments are
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached. <ul> <li>Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of</li> <li>Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul> NMAC       Previously Approved Design (attach copy of design)	19.15.17.15

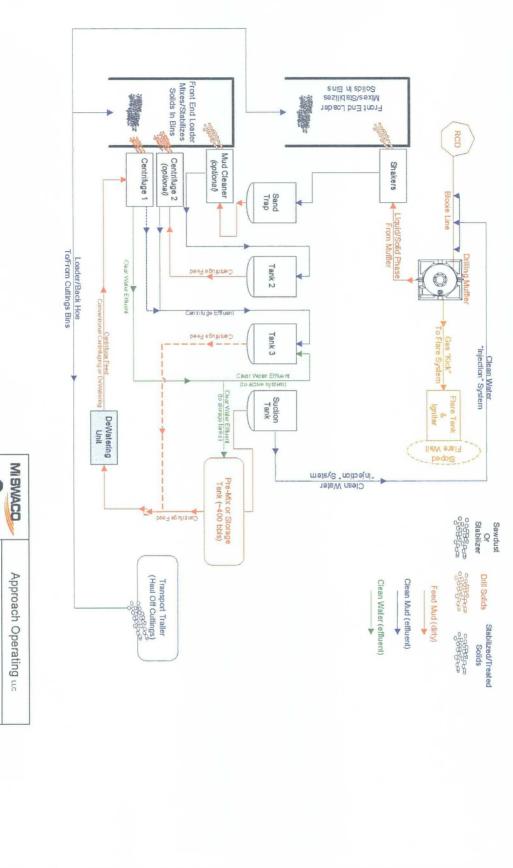
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	ocuments are
attached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.15 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Climatological Factors Assessment         Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC         Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC	
Type: 🗋 Drilling 🗋 Workover 🗋 Emergency 🗋 Cavitation 📋 Permanent Pit 🗋 Below-grade Tank 🔲 Closed-loop System [	Alternative
Proposed Closure Method: 📋 Waste Excavation and Removal	
On-site Closure Method (only for temporary pits and closed-loop systems)	
<ul> <li>In-place Burial</li> <li>On-site Trench Burial</li> <li>Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for cor</li> </ul>	nsideration)
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	
und water is less than 50 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
<ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	☐ Yes ☐ No ☐ NA
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗍 No
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗋 Yes 🗌 No
<ul> <li>thin an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No

<ul> <li>closure plan. Please indicate, by a check mark in the box, that the doc</li> <li>Protocols and Procedures - based upon the appropriate requirement</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling f</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of S</li> <li>Site Reclamation Plan - based upon the appropriate requirements of S</li> </ul>	tts of 19.15.17.13 NMAC opriate requirements of Subsection F of 19.15.17.13 NMAC uids and drill cuttings) propriate requirements of Subsection H of 19.15.17.13 NMAC subsection I of 19.15.17.13 NMAC
Waste Removal Closure For Closed-loop Systems That Utilize Haul- or facilities for the disposal of liquids, drilling fluids and drill cuttings.	off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility
Disposal Facility Name: <u>Basin Disposal, Inc.</u>	Disposal Facility Permit Number: <u>NM-01-0005</u>
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Instruction: Instructindent Instruction: Instruction: Instruction: Instructio	Each of the following items must be attached to the closure plan. Please indicate, oppriate requirements of 19.15.17.10 NMAC rements of Subsection F of 19.15.17.13 NMAC bon the appropriate requirements of 19.15.17.11 NMAC ts of 19.15.17.13 NMAC oppriate requirements of Subsection F of 19.15.17.13 NMAC ements of Subsection F of 19.15.17.13 NMAC uids and drill cuttings or in case on-site closure standards cannot be achieved) ubsection H of 19.15.17.13 NMAC ubsection I of 19.15.17.13 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true	ie, accurate and complete to the best of my knowledge and belief.
Name (Print): Glenn W. Reed, P. E. Signature: Kum WA Curf	Date: 6-18-08
	Telephone: <u>817-989-9000</u>
D Approval: Dermit Application (including closure plan) C	losure Plan (only)
UCD Representative Signature:	Approval Date:
OCD Representative Signature:	
	OCD Permit Number:
Title:         Closure Report (required within 60 days of closure completion):         Su         Closure Method:         Waste Excavation and Removal         If different from approved plan, please explain.	OCD Permit Number:
Title:         Closure Report (required within 60 days of closure completion):         Su         Closure Method:         Waste Excavation and Removal         If different from approved plan, please explain.	OCD Permit Number: bsection K of 19.15.17.13 NMAC Closure Completion Date:
Title:	OCD Permit Number:
Title:         Closure Report (required within 60 days of closure completion):         Su         Closure Method:         Waste Excavation and Removal       On-Site Closure Method         If different from approved plan, please explain.         Closure Report Attachment Checklist: Instructions: Each of the foll         mark in the box, that the documents are attached.         Proof of Closure Notice         Proof of Deed Notice (if applicable)         Plot Plan         Confirmation Sampling Analytical Results         Waste Material Sampling Analytical Results         Disposal Facility Name and Permit Number         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique         Site Reclamation (Photo Documentation)         On-site Closure Location: Latitude	
Title:         Closure Report (required within 60 days of closure completion):         Su         Closure Method:         Waste Excavation and Removal       On-Site Closure Method         If different from approved plan, please explain.         Closure Report Attachment Checklist: Instructions: Each of the foll         mark in the box, that the documents are attached.         Proof of Closure Notice         Proof of Deed Notice (if applicable)         Plot Plan         Confirmation Sampling Analytical Results         Waste Material Sampling Analytical Results         Disposal Facility Name and Permit Number         Soil Backfilling and Cover Installation         Re-vegetation Application Rates and Seeding Technique         Site Reclamation (Photo Documentation)         On-site Closure Location: Latitude         Derator Closure Certification:         I hereby certify that the information and attachments submitted with this	
Title:	OCD Permit Number:         bsection K of 19.15.17.13 NMAC         Closure Completion Date:         Alternative Closure Method         owing items must be attached to the closure report. Please indicate, by a check         Longitude       NAD:         1927       1983         closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.         Title:
Title:	OCD Permit Number:         bsection K of 19.15.17.13 NMAC         Closure Completion Date:         Alternative Closure Method         owing items must be attached to the closure report. Please indicate, by a check         Longitude       NAD:         [1927]       1983         closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.         Title:





**Closed-Loop Schematic** 



 Approach Operating Luc

 Operation

 Closed Loop Schematic (conceptual)

 Date
 rscurve

 Date
 rscurve

 State
 ss.rt

 Flow Process
 nsv

 Approved:
 Approved:

12

## APPROACH OPERATING, LLC. OPERATIONS PLAN

I. Location: L

II.

Date: June 18, 2008

LAT LONG Rio Arriba County, NM

Elev: GL

Field: Wildcat Surface: Drilling A. Contractor: TBD

B. Mud Program:

The surface hole will be drilled with a air, if possible, or fresh water mud.

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

C. Minimum Blowout Control Specifications:

Double ram type 3000 psi working pressure BOP with a rotating head. See the attached Exhibit # \_\_\_\_ 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 pulled 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:
 Depth
 Casing Size
 Wt & Grade

 12-1/4"
 350'
 9-5/8"
 32.3# H-40

 8-3/4"
 2000'
 4-1/2"
 10.5# J-55

B. Float Equipment

- 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'. ٠ 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)  $1.180 \text{ ft}^3/\text{sk}$ Slurry Yield: 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Total Mixing Fluid: 5.238 Gal/sk 2 % Calcium Chloride (Accelerator) Top of Fluid:  $0 \, \mathrm{ft}$ Calculated Fill: 350 ft Volume: 42.139 bbl Calculated Sacks: 200.503 sks Proposed Sacks: 205 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 TD.

Cement			
Fluid Instruction	S		
Fluid 1: Water E	ased 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 <sup>3</sup> /sk 6.193
5 lbm/sk Gilsonite (Lost Circulation Additive)	Top of Fluid: Calculated Fill: Volume: Calculated Sacks: Proposed Sacks:	0 ft 2000 ft 156.266 bbl 610.982 sks 615 sks
Fluid 3: Water Based Spacer Water Displacement lbm/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:

When existing roads are used to access the proposed location they will be maintained in the same or better condition than presently found.

2. Planned Access Roads:

Some new access road will have to be constructed. If existing access road is also used, it will be maintained in at least the current condition and will be upgraded where necessary to provide uninterrupted access to the proposed well.

3. Location of Existing Wells:

Attached map (Plat # 1) shows existing wells within one mile radius of the proposed well. N/A

4. 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. To protect livestock and wildlife, equipment will be fenced. Any tanks will be enclosed by a dike.

Upon completion of drilling, the location and surrounding area will be cleared of all debris.

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

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

6. Source of Construction Materials:

No additional construction materials will be required to build.

- 7. Methods of Handling Waste Disposal:
  - a. The drill cuttings, fluids and completion fluids will be placed in the steel tanks. 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 approved land fill upon completion of operations.
  - c. Portable toilets will be provided and maintained during drilling operations.

#### 8. Ancillary Facilities:

Ancillary facilities are to be based on well productivity. .

9. Well Site Layout:

A plat of the drill pad with location of drilling equipment and rig orientations also attached.

### 10. 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.

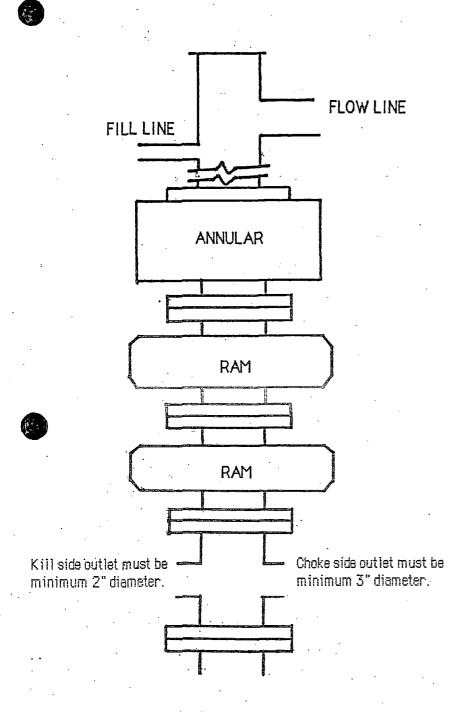


If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted to blend with the natural color of the landscape.

11. Lessee's or Operator's Representative:

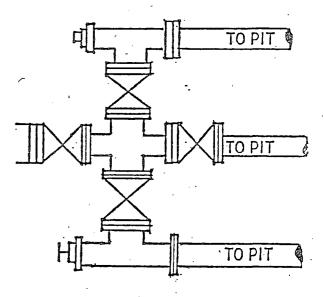
Glenn W. Reed, Executive Vice President – Engineering & Operations Approach Resources 6500 West Freeway, Suite 800 Fort Worth, Texas 76116 Phone: (817) 989-9000

> Glenn W. Reed Executive Vice President – Engineering & Operations



## TYPICAL BOP STACK & CHOKE MANIFOLD

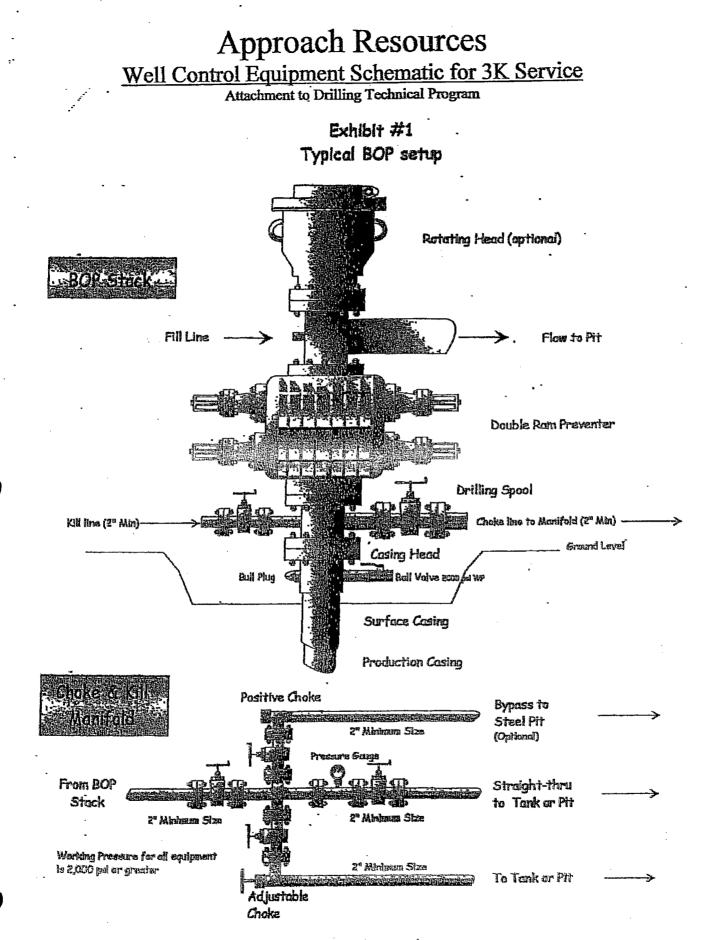
There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available. Safety valve and subs will fit all drill string connections in use. All BOPE connections subjected to well pressure will be flanged, welded, or clamped.





(F)