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

Form C-101 May 27, 2004

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

AMENDED REPORT

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

PLUGBA	ACK, O	R ADD	A ZONE										
Operator Name and Address										040043		OGRID Numbe	т
APPROACH OFFRATING, LLC 6300 RIDGELEA PLACE, SUITE 1107										248343		API Number	
FT.WORTH, TX. 76116									30 - 03	9			
				Property No						Wel	1		
			Proposed Pool I	AVELLA SULTEMEIER			10	2 Proposed Pcol 2					
		WC	28N4E20; MAN	cos							riopose	:u rooi 2	
⁷ Surface	Locatio	n											
UL or lotno. P	Section 20	Township 28 N	Range 4 E	Lot	Idn	Feet from			outh line UIH	Feet from the 200	e	EastWest line EAST	County RIOARRIBA
L			<u> </u>	.L				30	OIA			EAGI	RICARIGEA
UL or lotno.	Section 1	Township	tion If Differer	it From S		Feet from	ı fıe	North/St	outh line	Feet from the	<u>. </u>	East West-line	County
<u> </u>	<u> </u>	<u>.</u>	<u> </u>										,
Addition		nformat											
	TypeCode N		12 Well TypeC O	ROTARY		RY		Lease Type Code		de	Ground Level Elevation 7,773'		
, .	Aultiple N		17 Proposed De 6,000'	pth	oth PRECAMBRIAN				P	Contractor PATTERSONUTI		20 Spud Date UPON APPROVAL	
Depth to Grou	undwater			Distanc		earest fresh	water	well		Disance	from n	earest surface v	anter
<u>Pit:</u> Liner:	<u>Synthetic</u> d-Loop Syst		thick Clay 🗌	Pit Volum		bbls		Drilling] <u>Fred</u> i		Brine	Diesel/C	Dil-based C	Gas/Air U
21 Propos	sed Casin	ngand C	ement Prog	ram									
Hole S			sing Size			s	etting De	Depth Sacks of Cer		of Ceme	nt	Estimated TOC	
12-1/4" 9-5/8"		-5/8"	32.3			350'	50' 2		10		SURFACE		
8-3/4" 4-1/2"			10.5			6,000	' 1,500			SURFACE			
		<u> </u>								·			
	·									 	·		
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. 3,000# BOP system													
I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan . Signature: Printed name: BRIAN WOOD				vill be	OIL CONSERVATION DIVISION Approved by: Title:								
Title: CONSULTANT			A	Approv	al Date:			Expir	ation Date:				
E-mail Address: brian@permitswest.com													
Date: 4-21-08 Phone: (505) 466-8120			466-8120			Conditions of Approval Attached							

County

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Sonta Pe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. NM 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number WC28N4E20; MANCOS 30-039-Property Code Property Name Well Number Avella sultemeier #2 OGRID No. Operator Name E evation 248343 Approach Operating LLC 7773.901 W Surface Location Di pr lat no.

Section Township Runge Fort from the Peat from the East/West line **28N **20 **04E 1200/ SOUTH 2004 Rio Arriba EAST 11 Bottom Hole Location If Different From Surface UL or lot bo. Section Township Range Feet from the North/South line Post from the East/West line County Dellicated Acros 12 Joint or Infill Consolidation Code IS Order No. 40

Lot Ide

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the

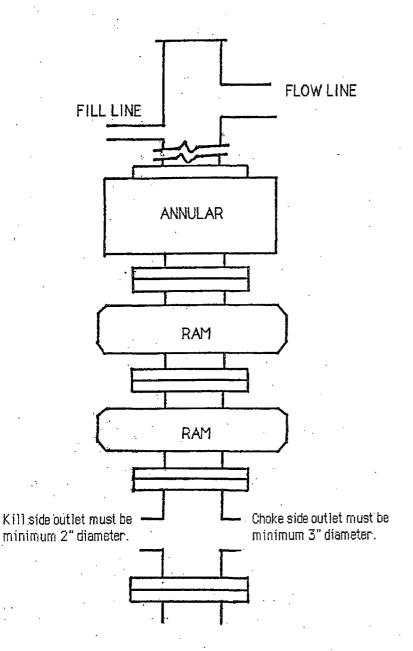
**Projection within the Tierra Amarilla Land Grant OPERATOR CERTIFICATION i incopy certify that the information contained herein is true and complete to the best of my knowledge and hellef, and that this organization either owns crworking interest or unleased whitesal interest in the least including the proposed bottom hale location or has a right to Adli this well at this location privating to a contract with an owner of such a mineral or working interest, or to a volulitary pooling agreement or a computatory pooling order 4-21-08 BRIAN WOOD Printed Name 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys mude by USCSCS Penasco A 169°59'41"W me or under my supervision, and that the same is true and coxrect to the best of my belief. Sultemeder #2 200 Certificate Number

New Mexico State Plane Coordinate System - Central Zone

418.972.83

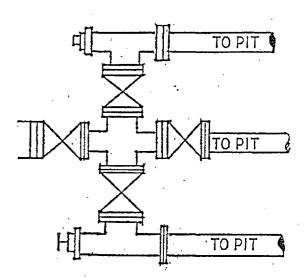
2,054,092.86

Latitude -36°38'41.8"N Longitude - 106°31'34.3"W



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.



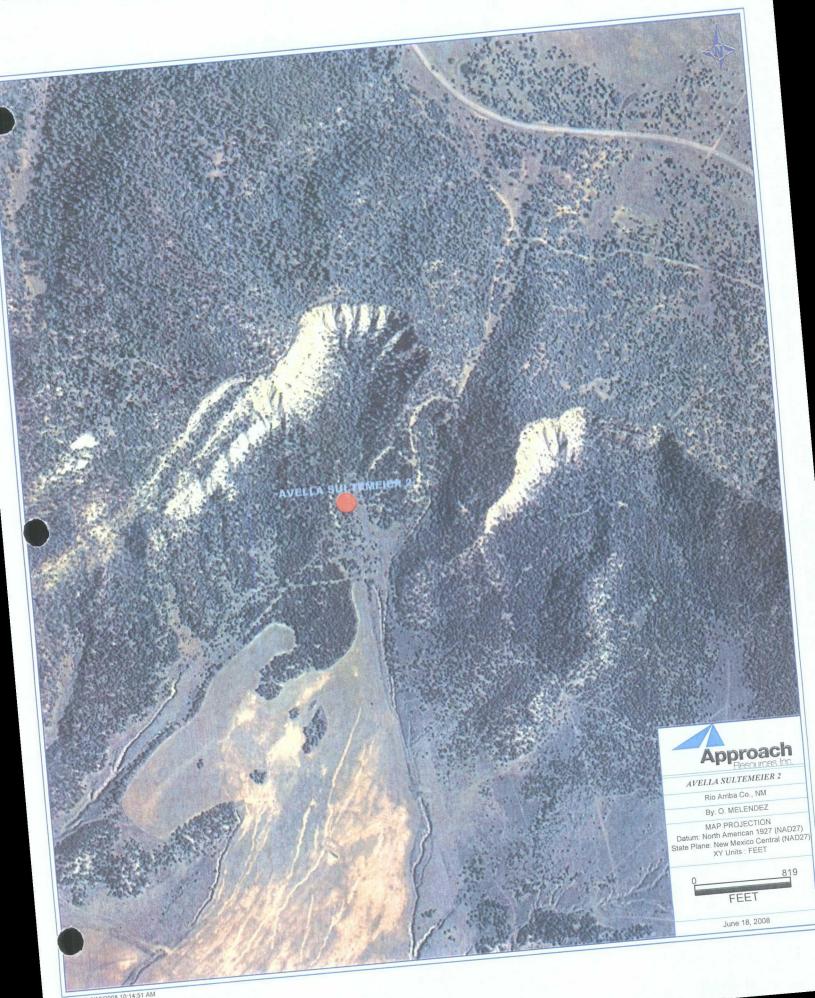
Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

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.





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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

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 ordinance

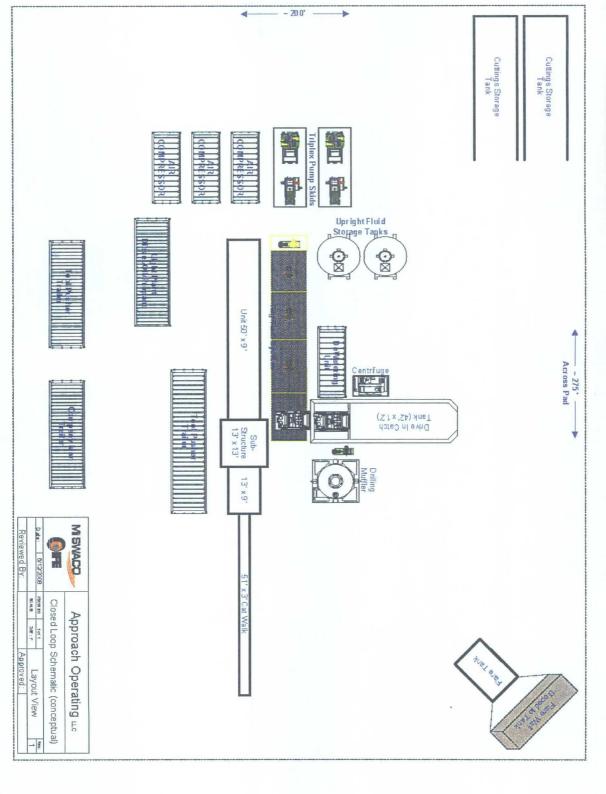
	ability should operations result in pollution of surface water, ground water or the ply with any other applicable governmental authority's rules, regulations or ordinances.					
Operator: Approach Operating, LLC	OGRID #: <u>248343</u>					
Address: 6500 West Freeway, Suite 800 Fort Worth, TX 76116						
Facility or well name: <u>Avella Sultemeier No. 2</u>						
API Number: <u>30-039-</u>	OCD Permit Number:					
U/L or Qtr/Qtr 9 Section 20 Township 28	N Range 4E County: Rio Arriba					
Center of Proposed Design: Latitude	Longitude NAD: ⊠1927 ☐ 1983					
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment						
Pit: Subsection F or G of 19.15.17.11 NMAC	☐ Closed-loop System: Subsection H of 19.15.17.11 NMAC					
Temporary: Drilling Workover	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 ³					
Volume:bbl Dimensions: Lx Wx D	Dimensions: Length N/A x Width N/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: Thicknessmil HDPE PVC	emergency telephone numbers					
Other	☐ Signed in compliance with 19.15.3.103 NMAC					
Alternative Method:	Administrative Approvals and Exceptions:					
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.					
f 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					
	Environmental Bureau office for consideration of approval.					

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-toop system.	
	Yes No
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). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No ☐ NA
	☐ Yes ☐ No ☐ NA
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. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
	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
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	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 NM Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.15 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.15 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	uments are
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
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 document attached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.10 N Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 N Signal Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Signal Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC NMAC Previously Approved Design (attach copy of design) API Number:	9.15.17.15

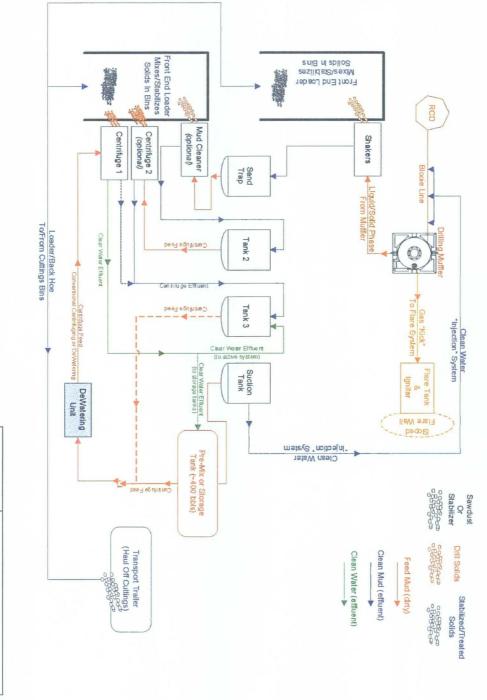
				
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are				
attached.	,			
Hydrogeologic Report - based upon the requirements of Paragraph (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				
☐ Liner Specifications and Compatibility Assessment - 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 19.15.17.12 NMAC				
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan				
 ☐ Nuisance or Hazardous Odors, including H₂S, 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 Subsection C of 19.15.17.9 NMAC and 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			
Proposed Closure Method: Waste Excavation and Removal On-site Closure Method (only for temporary pits and closed-loop systems)				
☐ In-place Burial ☐ On-site Trench Burial				
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bu	reau for consideration)			
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 accept	tabla			
instructions. Each string criteria requires a aemonstration of compliance in the closure plan. Recommendations of accept Source material are provided below. Requests regarding changes to certain siting criteria may require administrative appro				
the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental B Office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.1				
office for consideration of approval. Justifications and or demonstrations of equivalency are required. Trease refer to 19.1 NMAC for guidance.	3.17.10			
und water is less than 50 feet below the bottom of the buried waste.	Yés No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA			
Ground water is between 50 and 100 feet below the bottom of the buried waste	☐ Yes ☐ No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA			
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA			
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).	Yes No			
- Topographic map; Visual inspection (certification) of the proposed site				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application	on. Yes No			
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or st				
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial appl - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	ication.			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordin	nance Yes No			
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.				
- Written confirmation or verification from the municipality; Written approval obtained from the municipality				
Within 500 feet of a wetland.	Yes No			
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed s	site			
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No			
ithin an unstable area.				
Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geolog Society; Topographic map	ical Yes No			
Within a 100-year floodplain FEMA map	☐ Yes ☐ No			

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Inclosure plan. Please indicate, by a check mark in the box, that the documents are at Protocols and Procedures - based upon the appropriate requirements of 19.15.1′ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection	ttached. 7.13 NMAC ements of Subsection cuttings) uirements of Subsection f 19.15.17.13 NMA	on F of 19.15.17.13 NMAC ction H of 19.15.17.13 NM C			
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Only	v: (19.15.17.13.D)	NMAC) Instructions: Plea	se indentify the facility		
or facilities for the disposal of liquids, drilling fluids and drill cuttings.					
		t Number: NM-01-00			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC					
Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accurate a	nd complete to the	pest of my knowledge and h	relief		
Thereby certify that the information submitted with this application is true, accurate a	nd complete to the	oest of my knowledge and t	ocher.		
Name (Print): Glenn W. Reed, P. E.	Title: <u>Executiv</u>	e Vice President – Operation	ons and Engineering		
Signature: Slem W Inf	Date:	6-18-08			
e-mail address: gwreed@approachresources.com _	Telephone:	817-989-9000			
D Approval: Permit Application (including closure plan) Closure Plan (o					
D Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (o	only)	A			
	only)	Approval Date:			
D Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (of OCD Representative Signature:	only)				
D Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (of OCD Representative Signature:	only)	_ Approval Date:			
D Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (of OCD Representative Signature:	CD Permit Number	:			
D Approval: Permit Application (including closure plan) Closure Plan (closure Plan (closure Plan (closure Plan (closure Signature: Title: OCC Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative If different from approved plan, please explain.	CD Permit Number 19.15.17.13 NMAG Closure Comple	:C tion Date:			
D Approval: Permit Application (including closure plan) Closure Plan (closure Plan) OCD Representative Signature: Title:	ED Permit Number 19.15.17.13 NMAG Closure Complet Closure Method	tion Date:	indicate, by a check		
D Approval: Permit Application (including closure plan) Closure Plan (closure Plan) OCD Representative Signature: Title:	CD Permit Number 19.15.17.13 NMAG Closure Comple	tion Date:	indicate, by a check		
D Approval: Permit Application (including closure plan) Closure Plan (closure Plan) OCD Representative Signature: Title:	Donly) CD Permit Number 19.15.17.13 NMA Closure Comple Closure Method must be attached to	tion Date: the closure report. Please NAD: 19	e indicate, by a check 127 □ 1983 y knowledge and		
OCD Representative Signature: Title: OCC Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following items of 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 closure report belief. I also certify that the closure complies with all applicable closure requirements	Donly) Deprise Number 19.15.17.13 NMAG Closure Complete Complete Closure Method The attached to the complete	tion Date:	27 1983 y knowledge and re plan.		
OCD Representative Signature: Title: OCC Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following items of 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 Waste Material Sampling Analytical Results Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude Operator Closure Certification: I hereby certify that the closure complies with all applicable closure requirements Name (Print):	Dermit Number 19.15.17.13 NMAA Closure Method	tion Date:	e indicate, by a check 227 □ 1983 y knowledge and re plan.		
OCD Representative Signature: Title: OCC Closure Report (required within 60 days of closure completion): Subsection K of Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following items of 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 closure report belief. I also certify that the closure complies with all applicable closure requirements	Dermit Number 19.15.17.13 NMAA Closure Method	tion Date:	e indicate, by a check 227 □ 1983 y knowledge and re plan.		

Closed-Loop Schematic



Closed-Loop Schematic



Reviewed By:		Date: 6/12/2008	A	MISWACO
	SCALE	FSCM NO	Cio	
Approved:	3.8": 1"	1 0/1	sed Loo	Appro
	Flow Process		Closed Loop Schematic (conceptual)	pproach Operating ττο
		Rex		

APPROACH OPERATING, LLC. OPERATIONS PLAN

I. Location:

LAT

Date: June 18, 2008

LONG

Rio Arriba County, NM

Field: Wildcat

Elev: GL

Surface:

II. Drilling

A. Contractor: TBDB. 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:

Hole Size	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'.

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

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 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

 $1.436 \text{ ft}^3/\text{sk}$ 0.4 % Halad(R)-344 (Low Fluid Loss Control) Slurry Yield: 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Total Mixing Fluid: 6.193

Gal/sk

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

Calculated Fill: 2000 ft

Volume: 156.266 bbl Calculated Sacks: 610.982 sks

Proposed Sacks: 615 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:

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. Water Supply:

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:

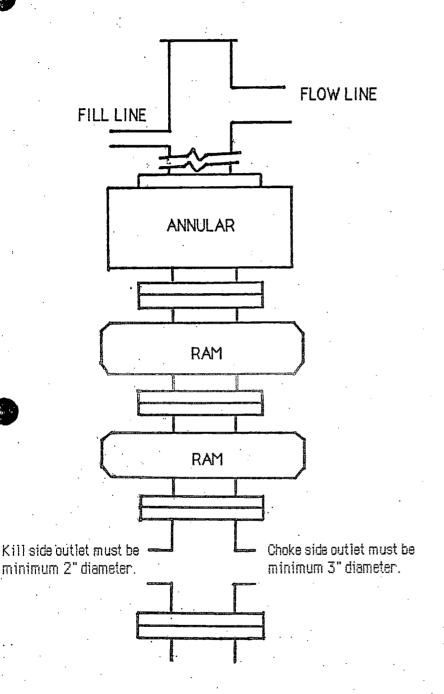
When the well is abandoned the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with appropriate seed mixture.

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:

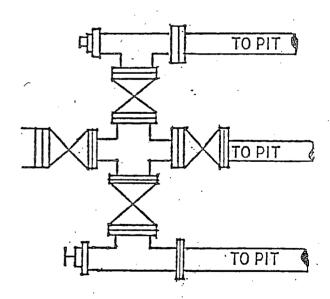
Glenn W. Reed, Executive Vice President – Engineering & Operations Approach Resources 6500 West Freeway, Suite 800 Fort Worth, Texas 76116 Phone: (817) 989-9000

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.



Approach Resources

Well Control Equipment Schematic for 3K Service Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

