District I
525 N. French Dr., Hobbs, NM 88240

strict 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
		□ ame	MDED R	FPORT

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

PLUGBA	ACK, OF	ADD A	A ZONE		,	ĺ						
Operator Name and Address APPROACH OPERATING, LLC									248343	² O	GRID Numbe	г
6300 RIDGELEA PLACE, SUITE 1107 FT. WORTH, TX. 76116								30 - 039		API Number		
Property Code Property ROSEMARY				erty Name RY ROLLE	R		1.55		"Wel			
			Proposed Pool 1 8NSE09; MAN				1		10	Proposed	Pool 2	
7 Surface	Location		urobo, mari	200								
UL or lotno. N	Section 9	Township 28 N	Range 5 E	Lot	idn F	eet from the 300	1	outh line JIH	Feet from the 1800	E	as#West line WEST	County RIO ARRIBA
8 Proposed	Bottom He	ole Lœati	on If Disfere	nt From S	urface		•					
UL or lotno.	Section	Township	Range	Lot l	dn F	eet from the	North/Sc	outh line	Feet from the	E	as√West line	County
Addition		formatic										
	TypeCode N		Well Type (Code		Cable/Robiy ROTARY		14	Lease Type Cod P	le	Grou Grou	nd Level Elevation 9,016'
	fultiple N		7 Proposed De 6,000	pth		Formation ECAMBRIAN	,	P	Contractor ATTERSON-UT	Į.	UPC	Spud Date ON APPROVAL
Depth to Grou	ındwater				e from neare	st fresh wat	r well				arest surface v	
Pit: Liner:	Synthetic (d d-Loop System		ick Clay	l >1 000' Pit Volun	e: <u>4,000</u> bbls	•	Drilling <u>i</u> Fresh	viethod: Water [2	_	Desel/Oi	ow when inso	ins/Air 4
21 Propos	ed Casin	gand Ce	ement Prog	ram								
Hole S	ize	Casi	ng Size	Casing	weight/foot		Setting De	pth	Sacks o	f Cemen	t	Estimated TOC
. 12-1/			5/8"		32.3		350'		2	10		SURFACE
8-3/	4"	4-	1/2"		10.5		6,000	,	1,500			SURFACE
22 7									L			new productive zone.
	blowout prev	ention prog	ram, if any. U				·					
13 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 gradelines , a general permit , or an (attached) alternative OCD-approved plan . Signature:					e	ved by:	OIL C	ONSERV	ATIO	N DIVISI	ON	
Printed name:	BRIAN WO	OD				Title:						
Title: CONSU						Appro	val Date:			Expira	tion Date:	
E-mail Addres		mitswest.co										
Date: 4-21-08 Phone: (505) 466-8120				Condit	Conditions of Approval Attached							

District I
1625 N. French Dr., Hohbs, NM 88240
District II
1301 W. Grand Avenue, Artesis, NM 88210
District III
1600 Rio Brazos Rd., Aztec, NM 87410
District IY
1220 S. St. Francis Dr., Santa Fe, NM 87805

State of New Mexico
Bnergy, 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

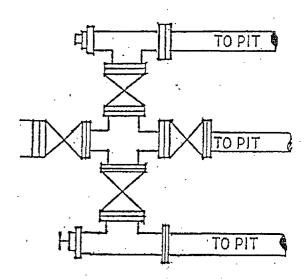
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	API Numbe	r		2 Pool Cod	e	WCZONE	Pool Na		
30-039					Property	WC28N5	EU9; MA	NCOS	Well Number
1 - 0 21 - 2 13			. Ro	semar	y Roller	radine			#-
OGRID					* Operator	Name			Elevation
248343	3		. 2	pproa	ch Operati		,	9	016.18'
					¹⁰ Surface	Location	0 10 10 10 10 10 10 10 10 10 10 10 10 10		
UL er let no.	**D9	Township	Range	Lot Idn	Yest from the	North/South line	Fast from the	Enst/We	
N	1 7 0 9	**28N	**05B		300'	South	1800'	West	Rio Arrib
*15 1-2	6".0	Im 11	" Bo	ottom H	ole Location	If Different Fro			
UL or lot no.	section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Esst/We	st line Com
Dedicated Acre	s 113 Joint a	r Indil 114	Consolidation C	ode INO	rder No.				
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ivision.	Will do as:	signed to t	his completi	on until a	Il interests have	been consolidated	or a non-standa	rd unit has be	en approved by the
	ction	withir	the Ti	erra l	Amarilla I	Land Grant			
16							170	ያለት የፈላጋር ላይ	CERTIFICATION
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							owns a workin	g interest or unleased	mineral interest in the land inch
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							Signature		Date
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							Printed Name		7.57
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New Mexico State Plane Coordinate System - Central Zone x - 452,632.03 y - 2,063,784.90

Latitude - 36°40'18.4"N Longitude - 106°24'41.5"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.





District I 1625 N. French Dr., Hobbs, NM 88240 District II

W. Grand Avenue, Artesia, NM 88210
ct III Ct III 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 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

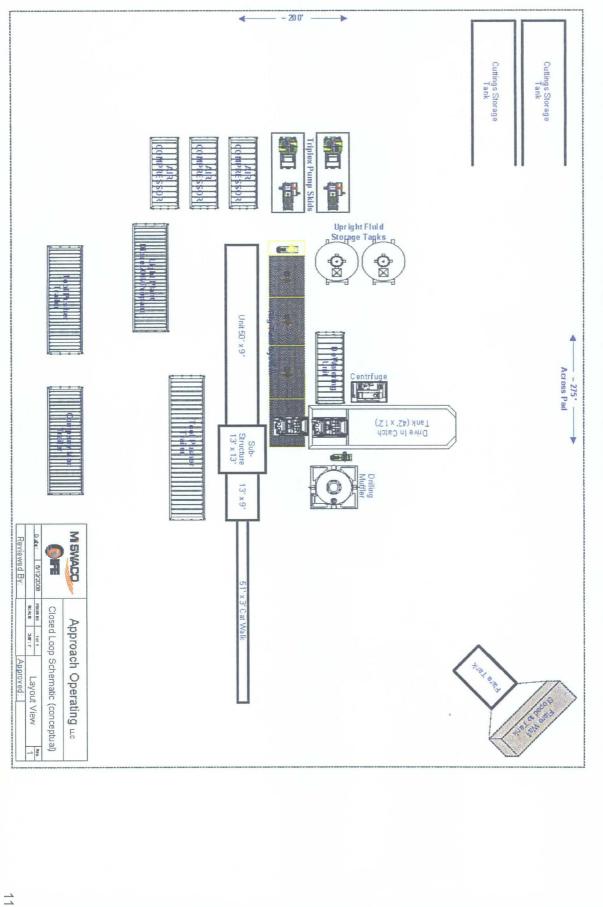
Proposed Alternative Method	Permit or Closure Plan Application
	ystem, below-grade tank, or proposed alternative method system, below-grade tank, or proposed alternative method
	dividual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of lia environment. Nor does approval relieve the operator of its responsibility to com	oly 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: Rosemary Roller No. 1	
	OCD Permit Number:
	N Range 5E County: Rio Arriba
	Longitude NAD: 🛛 1927 🔲 1983
Surface Owner: ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian	•
☐ 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 N/A mil LLDPE HDPE PVC
Liner type: Thickness mil LLDPE HDPE PVC	Other
Other String-Reinforced	Seams: Welded Factory Other
Seams: Welded Factory Other	Volume: <u>N/A</u> bbl <u>N/A</u> yd³
Volume: bbl Dimensions: L x W x 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.
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						
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						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No					
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					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	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 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 19.15.17.1 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	5 NMAC					
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 do attached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and 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:	19.15.17.15					

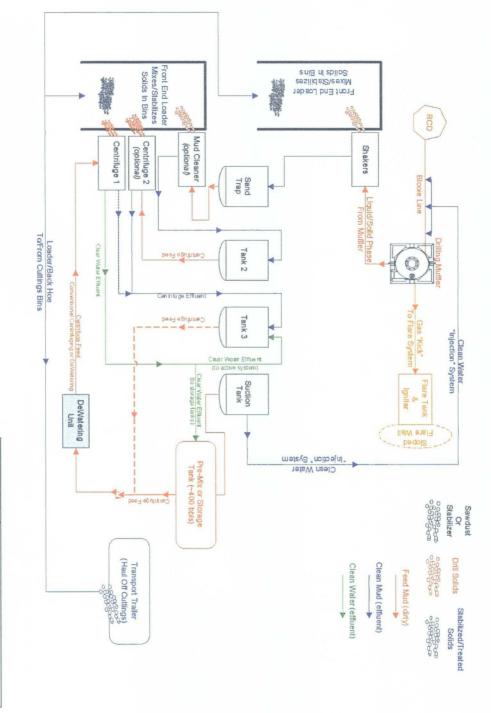
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.	documents are							
Hydrogeologic Report - based upon the requirements of 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 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	☐ Alternative							
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 Bureau for c	onsideration)							
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							
Ground water is more than 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							
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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No							
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; 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							
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	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							
thin 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 man	☐ Yes ☐ No							

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) I	
closure plan. Please indicate, by a check mark in the box, that the documents are Protocols and Procedures - based upon the appropriate requirements of 19.15. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Soil Backfill and Cover Design Specifications - based upon the appropriate re Re-vegetation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection	attached. 17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC ill cuttings) quirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Or or facilities for the disposal of liquids, drilling fluids and drill cuttings.	
	Disposal Facility Permit Number: <u>NM-01-0005</u>
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate requirements of 19.15. Construction and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19.15. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection How Soil Cover Design - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirem	irements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC repriate requirements of 19.15.17.11 NMAC 17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC ubsection F of 19.15.17.13 NMAC ill cuttings or in case on-site closure standards cannot be achieved) of 19.15.17.13 NMAC of 19.15.17.13 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate	and complete to the best of my knowledge and belief.
• •	Title: Executive Vice President Operations and Engineering
Name (Print): Glenn W. Reed, P. E. Signature: WWW My	Date: 6-18-08
e-mail address: gwreed@approachresources.com	Telephone: <u>817-989-9000</u>
D Approval: Permit Application (including closure plan) Closure Plan	(only)
OCD Representative Signature:	Approval Date:
	Approval Date: OCD Permit Number:
Title: Consure Report (required within 60 days of closure completion): Subsection K of Closure Report (required within 60 days of closure completion):	OCD Permit Number:
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.	of 19.15.17.13 NMAC Closure Completion Date: c Closure Method
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 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)	of 19.15.17.13 NMAC Closure Completion Date: c Closure Method s must be attached to the closure report. Please indicate, by a check
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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 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 Longitude Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure reports	of 19.15.17.13 NMAC Closure Completion Date: e Closure Method s must be attached to the closure report. Please indicate, by a check NAD: 1927 1983
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Closed-Loop Schematic



Closed-Loop Schematic



Revie		Date:		MISWACO
Reviewed By:		8/12/2008	H	ACO
	SCALE:	FSCM NO	Clo	
	3.6": 1"	1 0/1	sed Loc	Appro
Approved:	FIOW FIOCESS	Elow Process	Closed Loop Schematic (conceptual)	Approach Operating LLC
		Rev		

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.
- 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

lbm/gal

Fluid Density:

8.330

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

0 ft

2 % Calcium Chloride (Accelerator)

Top of Fluid: Calculated Fill:

350 ft

Volume:

42.139 bbl

Calculated Sacks:

200.503 sks

Proposed Sacks:

205 sks

Fluid 3: Water Based Spacer

Water Displacement

lbm/gal

Fluid Density:

8.330

Fluid Volume:

23.966 bbl

Production Casing: 4-1/2" 10.5 lb/ft J-55 casing set to TD.

Cement

Fluid Instructions

Fluid 1: Water Based Spacer

Water

lbm/gal

Fluid Density:

8.330

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: $1.436 \text{ ft}^3/\text{sk}$

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

6.193

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:

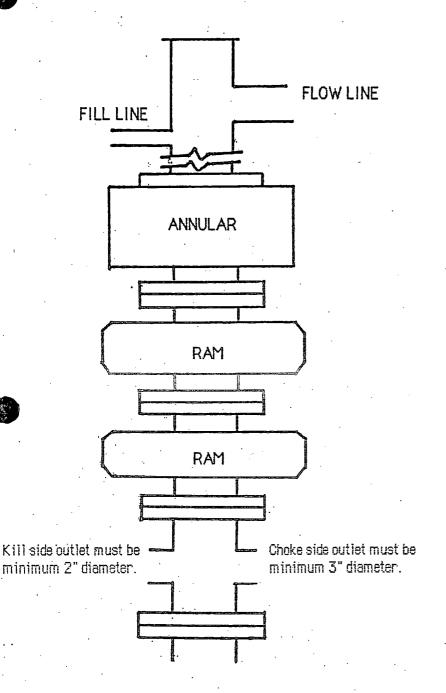
When the well is abandoned the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with appropriate seed mixture.

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:

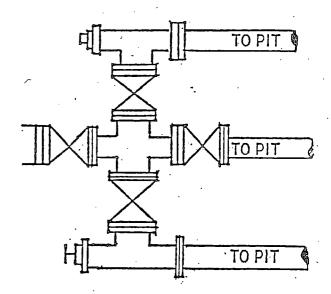
Glenn W. Reed, Executive Vice President – Engineering & Operations Approach Resources 6500 West Freeway, Suite 800 Fort Worth, Texas 76116 Phone: (817) 989-9000

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

