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 IY

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

May 27, 2004 Submit to appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

Form C-101

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

PLUGBA	ACK, OR	ADD	A ZONE							_		
Operator Name and Address								OGRID Number			r	
APPROACH OFERATING, LLC 6300 RIDGELEA PLACE, SUITE 1107								248343 API Number			<u></u>	
FT. WORTH, TX. 76116								30 - 039				
Prop	erty Code		· <u> </u>		³ Property Name ROSEMARY ROLLER					⁶ Well No.		
	-		Proposed Pool 1 8N5E09; MAN0	208					10	Proposed	Pool 2	
7 Surface	Location	¥¥ C2	on JEOS, MAIN	.05			L					
UL or lotno.	, , , , , , , , , , , , , , , , , , , 	Township	Range	Lot I	dn	Feet from the	North/S	outh line	Feet from the	E E	astWest line	County
N	9.	28 N	5 E			300	so	UTH	1800		WEST	RIOARRIBA
	Proposed Bottom Hole Location If Different From Surface				·							
UL or lotno.	Section	Township	Range	Lath	dn	Feet from the	North/Se	outh line	th line Feet from the		East/West line County	
	al Well In	formati										
	TypeCode N		Well Type C O	Code Cable/Robiy ROTARY			Lease Type Code P		le	Ground Level Elevation 9,016'		
	fultiple N		Proposed De 6,000	pth	P	18 Formation RECAMBRIAN		Contractor PATTERSON-UTI		ī	UPON APPROVAL	
Depth to Grou	ındwater			4	from near	est fresh water	well				arest surface v	
<u>Pit:</u> Liner:	Synhetic 6 d-Loop System		nick Clay		>1 MO' >50' (>36" of grow when inspected 4-11) Pit Volume: 4.000 bbls Drilling Method: Presh Water Brine Desel/Ol-based Gas/Air 4							_/
21 Propos	ed Casing	gand Co	ement Prog	ram			**	~~				
Hole S			ng Size			Setting De	ng Depth Sacks of G		f Cemen	Dement Estimated To		
. 12-1/4" 9-5/8"		32.3			350'		210		SURFACE			
8-3/	8-3/4" 4-1/2"		10.5			6,000	000, 1,		500		SURFACE	
_	<u></u>											
	blowout previ	ention prog	f this application				ve the dâta	a on the pr	esent producti	ve zone a	and proposed	new productive zone.
²³ I hereby certify that the information given above is true and complete to the					he I							
best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NNOCD guidelines [4], a general permit [1], or an (attached) alternative OCD-approved plan [1].				be or	OIL CONSERVATION DIVISION Approved by:							
Signature:												
Printed name: BRIAN WOOD				Title:	Title:							
Title: CONSULTANT					Appro	Approval Date: Expiration Date:						
E-mail Address: brian@permitswest.com												
Date: 4-21-08 Phone: (505) 466-8120				Conditi	Conditions of Approval Attached							

District I
1625 M. French Dr., Houds, NM 88240
District II
1301 W. Grand Avenuc, Artesis, NM 88210
District III
1600 Rio Brazos Rd., Axtec, NM 87410
District IV
1220 S. St. Francis Dr., Santa 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

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			WELL L			ACREAGE	DEDIC/					
API Number			2 Pool	Code	Micc	ONIÉE	Pool Na					
80-039				•	. 1	perty Name	28N5E	109; MA	NCOS		10 n av 2	
114,64,47				Rosem						7.1	Vell Numbo	#1
OGRID	Νo.		<u> </u>	709 EUR		erator Name					Elevation	-i
248343			Approach Operating, LLC							9016		
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UL or lot no.	Section	Township	Rang	Lot	Idn l'est fro	ace Location	/South line	Fast from the	YAZZAN	West line		County
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UL or lot no.	6	lm. v				ion If Differ			, 			
OL or lot no.	section	Township	Rang	1,01	Idn Feat fro	m the North	South line	Feet from the	East/\	West lbia		County
11 Dedicated Acres	10.2	<u> </u>										
}	13 Joint o	ւյսերը	Consolidation	Code	Order No.			•				
40												
No allowable v	vill be as	signed to	this comple	tion unf	l all interests h	nave been cons	olidated o	r a non-standa	d unit has l	been ap	proved by	y the
division.												
** Projec	ction	Withi	n the 1	lerra	Amarill	a Land G	rant			Taral La self-ameter-te	4	.,
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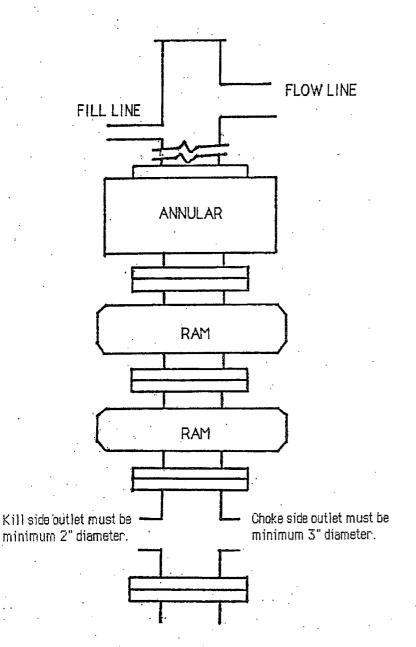
New Mexico State Plane Coordinate System - Central Zone x - 452,632.03 y - 2,063,784.90

S81°00'53"W

. 1

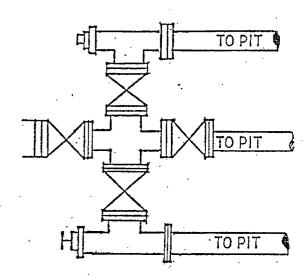
-USCEGS

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 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

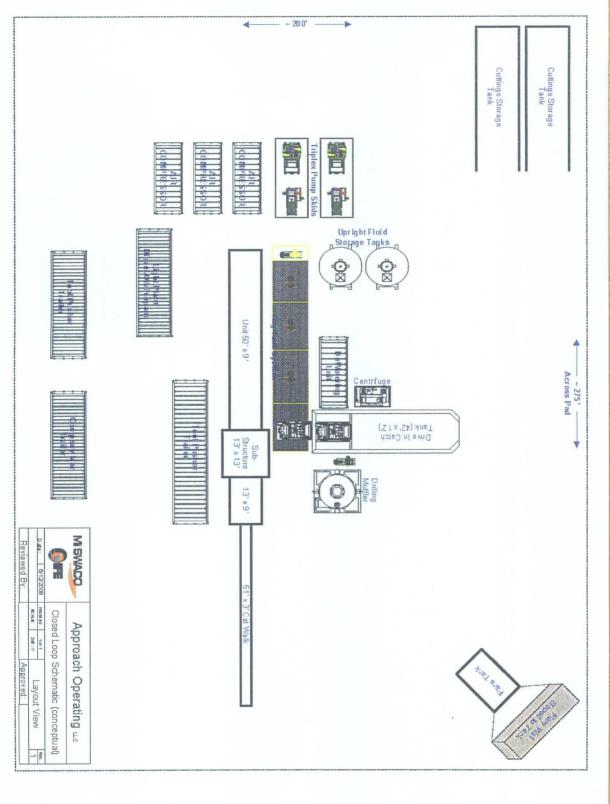
Proposed Alternative Method	Permit or Closure Plan Application				
	ystem, below-grade tank, or proposed alternative method system, below-grade tank, or proposed alternative method				
Instructions: Please submit one application (Form C-144) per in	dividual pit, closed-loop system, below-grade tank or alternative request				
	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: Rosemary Roller No. 1					
API Number: 30-039-					
U/L or Qtr/Qtr N Section 9 Township 28	Range <u>5E</u> County: <u>Rio Arriba</u>				
Center of Proposed Design: Latitude	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: Thicknessmil	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: 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: 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 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-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 19.15.17.91 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. 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. 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 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.19 NMAC and 19.15.17.13 NMAC 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 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					
1 reviously Approved Design (adaen copy of design) Art radinoer.						

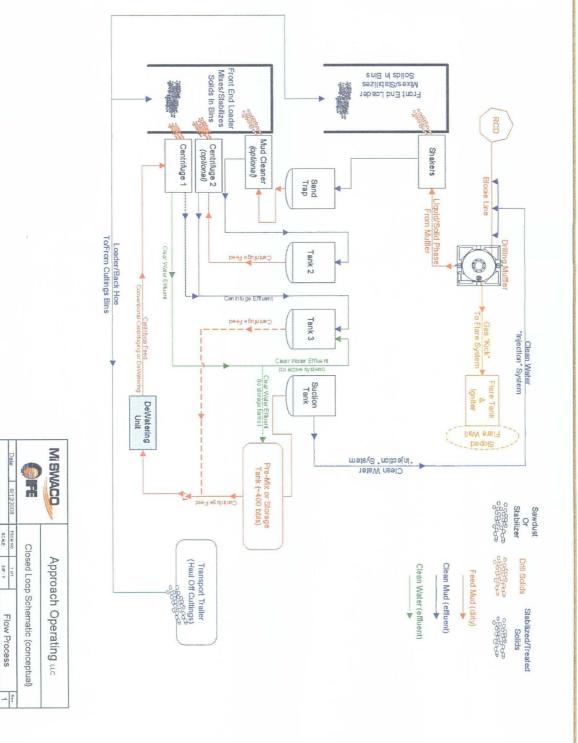
	n Checklist: Subsection B of 19.15.17.9 NMAC	
	titems must be attached to the application. Please indicate, by a check mark in the box, that the do	cuments are
Siting Criteria Compliance De	upon the requirements of Paragraph (1) of Subsection B of 19.15.17.15 NMAC emonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
☐ Dike Protection and Structural ☐ Leak Detection Design - based ☐ Liner Specifications and Comp ☐ Quality Control/Quality Assur ☐ Operating and Maintenance Pl ☐ Freeboard and Overtopping Pr ☐ Nuisance or Hazardous Odors	Plans - based upon the appropriate requirements of 19.15.17.11 NMAC I Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC d upon the appropriate requirements of 19.15.17.11 NMAC patibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC rance Construction and Installation Plan lan - based upon the appropriate requirements of 19.15.17.12 NMAC revention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC i, including H ₂ S, Prevention Plan	
☐ Oil Field Waste Stream Chara ☐ Monitoring and Inspection Pla		
Erosion Control Plan		
Proposed Closure: 19.15.17.13 NM	appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
	Emergency Cavitation Permanent Pit Below-grade Tank Closed-loop System] Alternative
Proposed Closure Method: Wast On-s	te Excavation and Removal site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial	
☐ Alter	rnative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for cons	sideration)
Instructions: Each siting criteria re source material are provided below. the appropriate district office or may office for consideration of approval.	closure methods only): 19.15.17.10 NMAC equires a demonstration of compliance in the closure plan. Recommendations of acceptable Requests regarding changes to certain siting criteria may require administrative approval from y be considered an exception which must be submitted to the Santa Fe Environmental Bureau Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10	
NMAC for guidance.		
	ow the bottom of the buried waste. neer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
	feet below the bottom of the buried waste neer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet b - NM Office of the State Engir		Yes No
(measured from the ordinary high-wa		☐ Yes ☐ No
	sidence, school, hospital, institution, or church in existence at the time of initial application. on) of the proposed site; Aerial photo; Satellite image	Yes No
watering purposes, or within 1000 ho	te, domestic fresh water well or spring that less than five households use for domestic or stock prizontal feet of any other fresh water well or spring, in existence at the time of initial application. heer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Sec		☐ Yes ☐ No
Within 500 feet of a wetland US Fish and Wildlife Wetland	d Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurfac - Written confirmation or verif	ce mine. Tication or map from the NM EMNRD-Mining and Mineral Division	Yes No
thin an unstable area Engineering measures incorporately; Topographic map	orated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain.		☐ Yes ☐ No

Waste Excavation and Removal Closure Plan Checklist: (19.15.17. closure plan. Please indicate, by a check mark in the box, that the do Protocols and Procedures - based upon the appropriate requiremed Confirmation Sampling Plan (if applicable) - based upon the appropriate Plan Confirmation Sampling Plan (if applicable) - based upon the appropriate Facility Name and Permit Number (for liquids, drilling Soil Backfill and Cover Design Specifications - based upon the Re-vegetation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements	ecuments are attached. ents of 19.15.17.13 NMAC propriate requirements of Subsection fluids and drill cuttings) appropriate requirements of Subsect Subsection I of 19.15.17.13 NMAC s of Subsection G of 19.15.17.13 NM	n F of 19.15.17.13 NMAC ion H of 19.15.17.13 NMAC C MAC	
Waste Removal Closure For Closed-loop Systems That Utilize Hau		MAC) Instructions: Please indentify the fac	cility
or facilities for the disposal of liquids, drilling fluids and drill cutting			
Disposal Facility Name: <u>Basin Disposal, Inc.</u>	Disposal Facility Pern	nit Number: <u>NM-01-0005</u>	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: 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 and Protocols and Procedures - based upon the appropriate requirements of Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Confirmation Sampling Plan - based upon the appropriate requirements of Confirmation Sampling Plan - based upon the appropriate requirements of Confirmation	ropriate requirements of 19.15.17.1 nirements of Subsection F of 19.15. upon the appropriate requirements of ents of 19.15.17.13 NMAC ropriate requirements of Subsection F of 19.15.1 fluids and drill cuttings or in case of Subsection H of 19.15.17.13 NMAC Subsection I of 19.15.17.13 NMAC	0 NMAC 17.13 NMAC of 19.15.17.11 NMAC of F of 19.15.17.13 NMAC 7.13 NMAC on-site closure standards cannot be achieved)	cate,
Operator Application Certification:			
I hereby certify that the information submitted with this application is	true accurate and complete to the b	est of my knowledge and belief	
	rue, accurate and complete to the o	est of my knowledge and benci.	
Name (Print): Glenn W. Reed, P. E.	Title: <u>Executive</u>	Vice President - Operations and Engineering	g
Name (Print): Glenn W. Reed, P. E. Signature: MW Nuf	Date:	0-18-08	_
e-mail address: gwreed@approachresources.com	Telephone:	817-989-9000	
D Approval: Permit Application (including closure plan)	Closure Plan (only)		
D Approval: Permit Application (including closure plan) OCD Representative Signature:		Approval Date:	
		Approval Date:	·
OCD Representative Signature: Title:	OCD Permit Number:		
OCD Representative Signature:	OCD Permit Number:		
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): S Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	OCD Permit Number: ubsection K of 19.15.17.13 NMAC Closure Completi	on Date:	
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): S Closure Method: Waste Excavation and Removal On-Site Closure Method	OCD Permit Number: ubsection K of 19.15.17.13 NMAC Closure Complete Alternative Closure Method llowing items must be attached to a	on Date:	
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): S 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 formark 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	OCD Permit Number: ubsection K of 19.15.17.13 NMAC Closure Completi	on Date:	:k
Closure Report (required within 60 days of closure completion): 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 formark 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 Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	OCD Permit Number: ubsection K of 19.15.17.13 NMAC Closure Complete Alternative Closure Method **Real Complete Compl	NAD: 1927 1983 complete to the best of my knowledge and fied in the approved closure plan.	:k
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): S 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 formark 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 Operator Closure Certification: I hereby certify that the information and attachments submitted with this	OCD Permit Number: ubsection K of 19.15.17.13 NMAC Closure Complete Alternative Closure Method **Real Complete Compl	NAD: 1927 1983	
Closure Report (required within 60 days of closure completion): 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 formark 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 Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	OCD Permit Number: ubsection K of 19.15.17.13 NMAC Closure Complete Alternative Closure Method **Real Complete Compl	NAD: 1927 1983 complete to the best of my knowledge and fied in the approved closure plan.	

Closed-Loop Schematic



Closed-Loop Schematic



Reviewed By

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:

 $1.180 \text{ ft}^3/\text{sk}$

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

2 % Calcium Chloride (Accelerator)

Top of Fluid:

0 ft

5.238

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

Fluid Density:

8.330

lbm/gal

Fluid Volume:

20 bbl

Fluid 2: Lead Cement

50/50 Poz Premium Fluid Weight 13 lbm/gal

0.4 % Halad(R)-344 (Low Fluid Loss Control) Slurry Yield: 1.436 ft³/sk

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

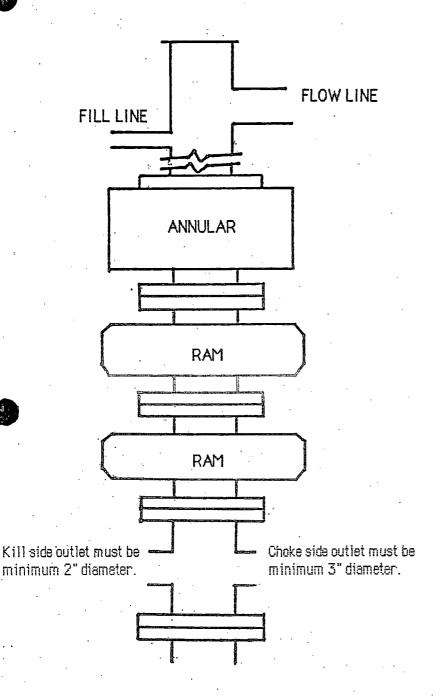
When the well is abandoned the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with appropriate seed mixture.

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:

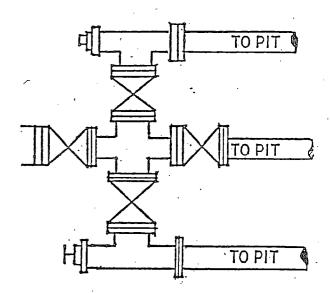
Glenn W. Reed, Executive Vice President – Engineering & Operations Approach Resources 6500 West Freeway, Suite 800 Fort Worth, Texas 76116 Phone: (817) 989-9000

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

