District II	ch Dr., Hob	bs, NM 883	:40	Energy	Miner	als and Na	rces	May 27, 2004				
1301 W Gran District III	nd Avenue,	Artesia, N	M 88210	Oil Conservation Division					S	Submit to appropriate District Office		
1000 Rio Bra	zos Road, /	Aztec, NM	87410									
LASINGLIV						South St. Francis Dr. ta Fe, NM 87505				AMENDED REPOR		
				TO DOT 1		-						
APPL	ACATI		* Operator Name :	and Address	., RE-	ENTER,	, DEE	PEN	1	² OGRID Numbe		
		65	APPROACH OPER 00 WEST FREEW	AY, SUITE 800					248343	APINumber		
Doogo	rty Code	····· /	FORT WORTH		Property	Name			30 - 39 -	2024	1 No.	
•	5790			WOO	LLEY F	AMILY LP						
			Proposed Pool 1	· · A					* Propo	osed Pool 2		
	IC LYN	563			urface	Location			·····			
ULorlotno	Section	Township	Range	Lot Ida			arth/South	ime	Feet from the	East/West line	County	
H	3	28N	SE			210	NORTH	I	935	EAST	RIO ARRIBA	
			T	ed Bottom Ho								
UL or lot no.	Section	Township	Range	Lot Kin	Feet f	nom the No	orth/South	line	Feet from the	East/West line	County	
						ell Inform	ation					
	Type Code N		¹² Well Type Cod O	c I		e/Rolary FARY		"L	ease Type Code P		nd Level Elevation 921.98° LSD	
* M	ultiple		" Proposed Depti 2000			rmation NEROS			Contractor		¹⁰ Spud Date ASAP	
Depth to Grou	ndwater: >	100'	2000	Distance from n		<u> </u>	: >1000'			nearest surface wa		
-		X a mils	thick Clay 🗌	Pit Volume: 400	0 bbls	D	nlling M	-thad				
	d-Loop Sys	, in the second se		The Volume. 400	0013				Brine Die	sel/Oil-based	Gas/Air 🕅	
			21	Proposed Ca	sing a	und Ceme						
Hole Si	ize	Ca	sing Size	Casing weight			ng Depth		Sacks of Cer	ment	Estimated TOC	
12 1/2			5/8"	36.0#			50'	d	210		SURFACE	
8 ¾*			4 ½"	10.5 #			700'		500		SURFACE	
<u> </u>						1						
						<u> </u>		{				
			f this application is				data on	the pres	ent product ive z	one and proposed	new productive	
zone. Describ	e the blown	out preventi	on program, if any.	Use additional s	sheets if	nocessary.						
Propose to dril	ll into the C	iraneros Sh	exploring for oil a	nd/or gas in all fo	ormation	s encountered	•			rcvd oct	15'07	
(1) Shafco 11"			.ws							OIL CON	5. DIV.	
(1) Grant 11" 1 (1) 5000# chol												
(1) Koomey 3	station 300	0# w/air/hy	draulic pump	NO	TIF	Y AZTI	EC (DCI	D 24 HF	S. DIST.	. 3	
(4) 10 gallon b	ottles			PRI	OR .	TO CA	NIS/	IG 8	& CEME	NT		
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			n given above is tru arther certify that				OT	r. co	NSERVAT	ION DIVISI	ON	
constructed a	ochrojng to	NMOCD	guidelines 📿 🎣	eneral permit	d, or							
an (attacion) Signature:			N N	ul		Approved b	^{sy:} /	4	\mathbf{c}			
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Printed name:						Title.	D DCT	eput	y Oil & Ga	is inspect	Of,	
Title Senior V				<u> </u>		Approval D	uli .	18	Incl	pithian Date:		
E-mail Addres		approach	7		······							
Date: October	11, 2007		Phone: (817) 9	989-9000		Conditions						
			001	1 8 2001		12m H	NE I	ine	r requi	re#(

State of New Mexico

Form C-101

District I

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 89210 District III 1000 Rio Brazos Rd., Axtor, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, 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

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AMENDED REPORT

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200	312	03	1 1 7	649			014923	<u>j Mauce</u>	COIL,		Well Number
Property Code Wood			olley Family Limited Partnership					Woolley Family LP #1			
OGRID	Na		_	_	¹ Operator				Elevation		
			Appr	oach (Operatin				9921.981		
					¹⁰ Surface	Loca	tion				
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CC OF INT INC.	SILLING	Iversity	Reange	LAN IUI	r og nom tøe	^	or measure tipe	rect troub cac		U WY COL BODC	County
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Dedicated Acres	JOGETO	LTU116	Consolination	ode i Un	ICF 199.						
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No allowable v						_		_	ſ	DIL CO	NS. DIV.
	will be ass	signed to	this completion	on until all	interests have	been c	onsolidated o	er a non-standa	ret unit has	been ap	proved by the
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PETRA 6/18/2008 10:32:33 AM

District I 1625 N. French Dr., Hobbs, NM 88240 District II W. Grand Avenue, Artesia, NM 88210 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 Form C-144 June 16, 2008

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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.

<u>Pit, Closed-Loop System, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

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

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

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

Operator:Approach Operating, LLC	OGRID #:248343
Address:6500 West Freeway, Suite 800 Fort Worth, TX 76116	
Facility or well name: <u>Woolley Family LP No. 1</u>	
API Number: <u>30-039-30397</u> 0	OCD Permit Number:
U/L or Qtr/Qtr <u>H</u> Section <u>3</u> Township <u>28</u>	N_Range5ECounty: <u>Rio Arriba</u>
Center of Proposed Design: Latitude	Longitude NAD: 🛛 1927 🔲 1983
Surface Owner: 🛄 Federal 🛄 State 🖾 Private 🛄 Tribal Trust or Indian 4	Allotment
<u>Pit</u>: 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
ermanent 🗌 Emergency 🔲 Cavitation	Lined Unlined
Lined Unlined	Liner type: Thickness <u>N/A</u> mil LLDPE HDPE PVC
Liner type: Thickness mil	□ 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 <u>N/A</u> x Width <u>N/A</u>
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 proval.	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. 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.

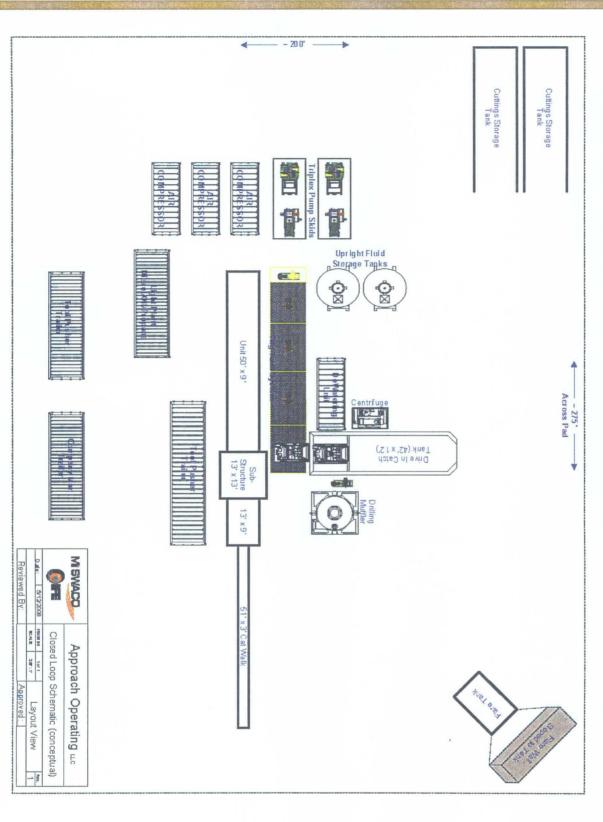
Oll Commention District

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 15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed- op 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
	☐ 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
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗋 No
Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No
 In 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 Naturations: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc intached. 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 NMAC 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 	cuments are 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 docu intached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 1	

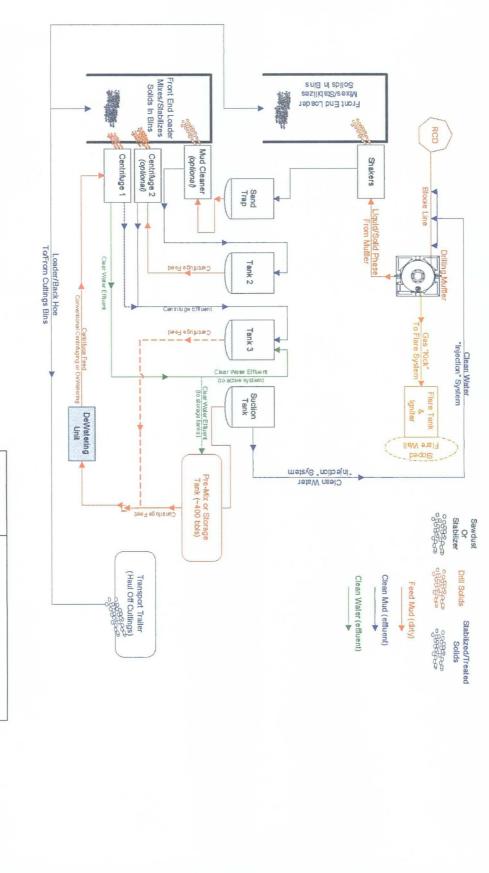
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.	? documents are
 Hydrogeologic Report - based upon the requirements of Paragraph (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	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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	
und water is less than 50 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
 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 ☐ 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). 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
 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

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NM/							
closure plan. Please indicate, by a check mark in the box, that the document.							
Protocols and Procedures - based upon the appropriate requirements of 1							
 Confirmation Sampling Plan (if applicable) - 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) 							
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
Re-vegetation Plan - based upon the appropriate requirements of Subsect							
Site Reclamation Plan - based upon the appropriate requirements of Subs	section G of 19.15.17.13 NMAC						
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bin	ns Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility						
or facilities for the disposal of liquids, drilling fluids and drill cuttings.							
Disposal Facility Name: <u>Basin Disposal, Inc.</u>	Disposal Facility Permit Number: <u>NM-01-0005</u>						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of	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 Proof of Surface Owner Notice - based upon the appropriate requirement 							
Construction and Design of Burial Trench (if applicable) based upon the							
Protocols and Procedures - based upon the appropriate requirements of 1							
Confirmation Sampling Plan (if applicable) - based upon the appropriate							
Waste Material Sampling Plan - based upon the appropriate requirements							
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and Cover Design - based upon the appropriate requirements of Subsection 							
Re-vegetation Plan - based upon the appropriate requirements of Subsect							
Site Reclamation Plan - based upon the appropriate requirements of Subs							
Operator Application Certification:							
I hereby certify that the information submitted with this application is true, acc	urate and complete to the best of my knowledge and belief						
Name (Print): <u>Glenn W. Reed, P. E.</u>	Title: <u>Executive Vice President – Operations and Engineering</u>						
Signature: Menn WMm	Date: 6-18-08						
Signature:	Date: 07008						
	Telephone: <u>817-989-9000</u>						
e-mail address: gwreed@approachresources.com '	Telephone <u>817-389-3000</u>						
D Approval: Permit Application (including closure plan) Closure	Plan (only)						
D Approval: Permit Application (including closure plan) Closure OCD Representative Signature:							
OCD Representative Signature: Title:	Approval Date: OCD Permit Number:						
OCD Representative Signature:	Approval Date: OCD Permit Number: on K of 19.15.17.13 NMAC						
OCD Representative Signature: Title:	Approval Date: OCD Permit Number:						
OCD Representative Signature: Title:	Approval Date: OCD Permit Number: on K of 19.15.17.13 NMAC Closure Completion Date:						
OCD Representative Signature: Title:	Approval Date: OCD Permit Number: on K of 19.15.17.13 NMAC						
OCD Representative Signature: Title:	Approval Date: OCD Permit Number: Om K of 19.15.17.13 NMAC Closure Completion Date: mative Closure Method						
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OCD Representative Signature: Title:	Approval Date: OCD Permit Number: Om K of 19.15.17.13 NMAC Closure Completion Date: mative Closure Method						
OCD Representative Signature: Title:	Approval Date: OCD Permit Number: on K of 19.15.17.13 NMAC Closure Completion Date: native Closure Method items must be attached to the closure report. Please indicate, by a check						
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subsection 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 following 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	Approval Date: OCD Permit Number: Om K of 19.15.17.13 NMAC Closure Completion Date: mative Closure Method						
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Closed-Loop Schematic



 Mi SWACO
 Approach Operating Lic

 Image: Image:

APPROACH OPERATING, LLC. OPERATIONS PLAN

I. Location: LAT

II.

Date: June 18, 2008

LONG Rio Arriba County, NM

Elev: GL

Field: Wildcat Surface: Drilling A. Contractor: TBD B. Mud Program:

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

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

C. Minimum Blowout Control Specifications:

Double ram type 3000 psi working pressure BOP with a rotating head. See the attached Exhibit # _____ for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1500 psi.

The blind ram will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All check of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

No over pressured zones are expected in this well. No H2S zones expected, but compliance packs will be on location.

III. Logging program: Induction / GR and density logs at TD.

IV. Materials

 A. Casing Program:
 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 colla the bottom 3 joints.	r on bottom and 3 co	entralizers
	b.	Production Casing: 4-1/2" wh shoe and a float collar on top of with bow spring centralizers	• 1	-
V. Cementing:				
• Surfa	ce Ca	asing: 9-5/8" 32.3 lb/ft H-40 set	to 350'.	
Cement 0-350'	~			
Fluid 1: Water Based 9 Water lbm/gal	Space	r	Fluid Density:	8.330
ioni/gai			Fluid Volume:	10 bbl
Fluid 2: Lead Cement Premium Cement Ibm/gal			Fluid Weight	15.600
94 lbm/sk Premiu		· /	Slurry Yield: Total Mixing Fluid:	1.180 ft ³ 5.238
2 % Calcium Chl	oride	(Accelerator)	Top of Fluid: Calculated Fill: Values and	0 ft 350 ft
			Volume: Calculated Sacks: Proposed Sacks:	42.139 b 200.503 205 sks
Fluid 3: Water Based 9 Water Displacement Ibm/gal	Space	р г	Fluid Density:	8.330
Fluid Volume:			23.966 bbl	
• Produ	ctior	Casing: 4-1/2" 10.5 lb/ft J-55 c	asing set to TD.	
Cement Fluid Instructions Fluid 1: Water Based S Water Ibm/gal	Space	r	Fluid Density:	8.330
lbm/gal Fluid Volume: 20 b	bl			

· 15

Fluid 2: Lead Cement

· Singod

Sales and

50/50 Poz Premium 0.4 % Halad(R)-344 (Low Fluid Loss Control) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Gal/sk	Fluid Weight Slurry Yield: Total Mixing Fluid:	13 lbm/gal 1.436 ft ³ /sk 6.193
5 lbm/sk Gilsonite (Lost Circulation Additive)	Top of Fluid: Calculated Fill: Volume: Calculated Sacks: Proposed Sacks:	0 ft 2000 ft 156.266 bbl 610.982 sks 615 sks
Fluid 3: Water Based Spacer Water Displacement Ibm/gal	Fluid Density: Fluid Volume:	8.330 31.197 bbl

• The wells will have 40' of 14" conductor set. Then a 12-1/4" hole will be drilled to about 350' when 9-5/8" surface casing will be set and cemented. We will drill out with a 8-3/4" bit using

MULTI-POINT SURFACE USE PLAN

1. Existing Roads:

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

2. Planned Access Roads:

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

3. Location of Existing Wells:

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

4. Location of Production Facilities:

In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated after completion. To protect livestock and wildlife, equipment will be fenced. Any tanks will be enclosed by a dike.

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

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

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

6. Source of Construction Materials:

No additional construction materials will be required to build.

- 7. Methods of Handling Waste Disposal:
 - a. The drill cuttings, fluids and completion fluids will be placed in the steel tanks. Upon completion, the pad will be leveled, contoured and reseeded with the appropriate seed mixture.
 - b. All garbage and trash will be placed in a metal trash basket. It will be hauled off and dumped in an approved land fill upon completion of operations.
 - c. Portable toilets will be provided and maintained during drilling operations.

8. Ancillary Facilities:

Ancillary facilities are to be based on well productivity. .

9. Well Site Layout:

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

10. Plans for Restoration of Surface:

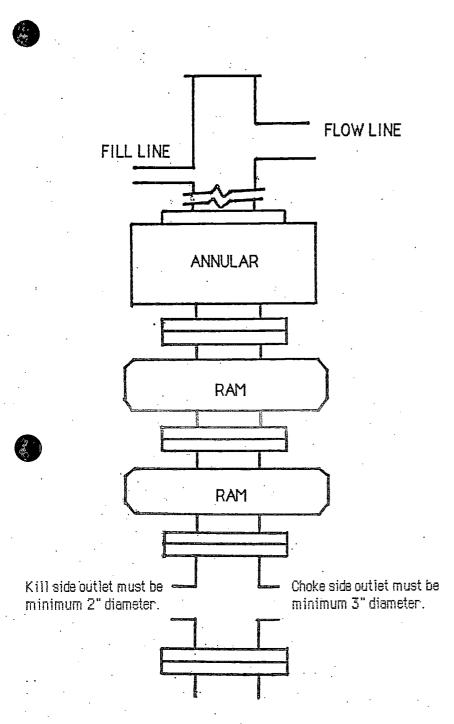
When the well is abandoned the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with appropriate seed mixture.

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

11. Lessee's or Operator's Representative:

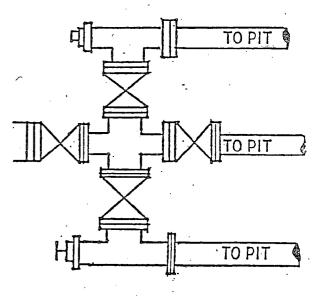
Glenn W. Reed, Executive Vice President – Engineering & Operations Approach Resources 6500 West Freeway, Suite 800 Fort Worth, Texas 76116 Phone: (817) 989-9000

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



TYPICAL BOP STACK & CHOKE MANIFOLD

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



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

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



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

Exhibit #1 Typical BOP setup

