District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 882 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

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

State of New Mexico Energy Minerals and Natural Resources

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

SEP 26 2007

Form C-101 May 27, 2004

OCD-ARTESIA Submit to appropriate District Office

☐ AMENDED REPORT

APP	LICAT	ION	FO]	R PERMI	T TO D	RILL, RE-	ENTER, I	EEPEN	I, PLUGBA	CK, O	R AD	D A ZONE
Prime	vy Oper	atino	. Co	Operator Nam rporation	e and Addre	SSS.			153888		D Numbe	
1	_	•	•	0 Dall	as, Texas 7	′5206		30 - 0	os ^{'API}	Number	3989	
Property Code Sam's Ranch 16											° We	ll No
San's Ranch: Proposed Pool 1 Grayburg									^{lo} Pro	posed Pool	2	
Jam.	s ica	ue.	` ,	GFAY	OUTQ	7 Surface	Location					
UL or lot no	Section	Town	ship	Range	Lot			/South line	Feet from the	East/We	est line	County
1	16	_14S	لـــــا	28E	_L	198		ıth	660	Fast		Chaves
	r			⁸ Prop	osed Bott	tom Hole Loca	tion If Differe	nt From S	urface			
ULorlotno	Section	Towns	ship	Range	Lot	Idan Feetfi	om the North	South line	Feet from the	East/We	est line	County
					Α	dditional We						
"Work	Type Code N			12 Well Type Co G	ode		e/Rotary R	'	Lease Type Code S			and Level Elevation 3567 †
¹⁶ M	ultiple N			¹⁷ Proposed Dep	oth		mation		19 Contractor			Spud Date
Depth to Groun				2(11)	Distance	Grayb from nearest fresh		1	Distance from	nearest sur	_6/01/ face water	
Pit. Liner	Synthetic []	_mıls t	hick Clay	Pit Volum	ebbls	Drilling l	/lethod			·	
Closed	Loop Syster	n 🗆							Diesel/Oil-based	☐ Gas/A	ur L	
·				2	1 Propo	sed Casing a	nd Cement	Progran	1		γ	
Hole S	ıze			ng Size		g weight/foot	Setting I		Sacks of Co	ment	<u> </u>	Estimated TOC
11			8 5		24#		250		250			urface
7	7/8		5 1	<u>/2</u>	15.5#		1800		300		surface	
27				<u> </u>								
		-		• •		N or PLUG BACI eets if necessary	K, give the data o	n the presen	t productive zone a	nd propose	d new pro	oductive zone
MIRU Dr	illing	Conti	ract	or. Drill	an 180	O' Grayburg	g well, 198	O'FSL	& 660' FEL c	of Sec.	16, T	14S, R28E
of Chav	res Coun	ty, N	Vew 1	Mexico. Dr	ill a	II " hole	e 250'. R	un 8 5/8	3- 24# pipe.	Cement	to s	urface
with 25	0 sacks	. Dri	i11 a	a 77/8' h	ole to	1800' and r	run 5 1/2-	15.5# ca	asing. Cemen	t to s	ırface	with
300 sac	ks of c	ement	. P	erforate a	s neede	ed.						
P1ease	see att	ached	ı fo	r recommer	ded dri	lling fluid	is.					
11000	Dec acc	acrico	•			O						
²³ I hereby cert	ify that the i	nforma	tion gi	iven above is tru	e and comp	lete to the best					10	
				ertify that the caldelines \Box , a				OIL C	ONSERVAT	ION D	IVISIO	ON
(attached) alte					general per	, , , , , , , , , , , , , , , , , , , ,	Approved by					
Signature	and	ea	4	Nolina	n		. approved by		BRYAN G			
Printed name			'				Title		DISTRIC	Г II GI	EOLC	GIST
Title Regul	_						Approval Date	SEP 2	6 2007 Ex	piration D	ate SI	EP 2 6 2008
E-mail Address	andre	a.mol	lina	r@primexx.	cam							
Date 9/25/2	2007			Phone (214) 369–59	09	Conditions of Ar	oroval Attac	hed \square			

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

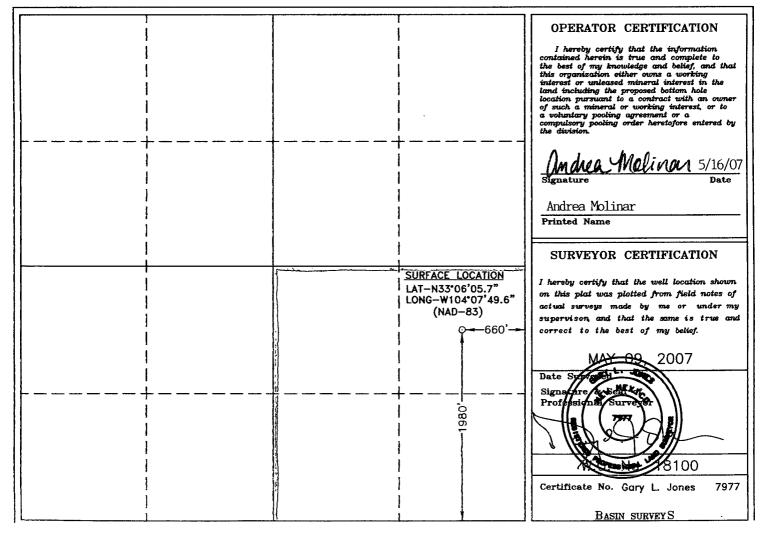
□ AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API]	Pool Code	j		Pool Name				
			Sam's	Ranch	Gr	ayburg Gas				
Property	Code _,				Property Nan	ie		Well Number		
367	65			S	AMS RANCH	"16"		1		
OGRID N	D.				Operator Nam	ıe		Elevation		
153888				PRIME	XX OPERATII	NG CORP.		3567'		
					Surface Loca	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
1	16	14 S	28 E		1980	SOUTH	660	EAST	CHAVES	
			Bottom	Hole Loc	cation If Diffe	erent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	Joint o	or Infill Co	nsolidation (Code Or	der No.	<u> </u>		1		
NO ALLO	WABLE V					INTIL ALL INTER		EEN CONSOLID	ATED	

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Primexx Energy Corporation * Sands Ranch "16" # 1 * Sec 16, T-14-S, R-28-E, Chaves, NM

INTERVAL: 0 - 300)'	l I" hole	1 days 8.	625" csg		1 drill bits	
Product	Function		Treatment	Unit Size	Usage	Unit Price	Lotal Price
Bentonite	Viscosifier, hole	sweep	12-14 ppb	100#	35	\$7.84	\$274.40
Cedar Fiber/Fiber Plug	LCM, sealant		10-20 ppb in pills	40#	10	\$7.27	\$72.70
Ground Paper	seepage and sv	veeps	1-3 sacks per 100 feet	40#	20	\$9 35	\$187.00
Lime	pH additive, floo	cculant	1 sack per 15 sacks of bento	nite 50#	5	\$5 74	\$28.70
Maxi-Seal/Fiber Seal/Chem Seal	LCM, sealant		10-20 ppb in pills	40 #	10	\$11.88	\$118.80
Plastic	Storage aid		Cover mud	1 roll	1	\$52.50	\$52.50
				•	inter.	al Total:	\$734.10

Projected Mud Properties

Depth	Mud Wt ppg	Viscosity	Filtrate	рН	Solids - % by vol	
0-300'	8.4-9.4	32-34	N/C	9.0	3-8	

General Geological Data

Fops/Bases	Formation	Lithology	Notes/Challenges
0' - 300'	Quaternary/Ogallala	Sand, gravel beds, red beds	Swelling, sloughing clay, excessive solids, mud rings

Interval Notes for 0 - 300

Spud with a conventional Bentonite and Lime slurry. Circulate the working pits and maintain the viscosity as needed to clean the hole. Adjust viscosity only as necessary to clean the hole. Use Ground Paper additions to control seepage and to enhance hole cleaning. Should severe losses be encountered sweep the hole with a 100 bbl. Viscous(40-50) Bentonite pill containing 10-20 ppb of various sized fibrous LCM's. Dry drilling to casing point should be considered if one pill is not successful at regaining returns. Continue to sweep the hole with these viscous LCM pills periodically to keep cuttings cleaned from the well bore. Spot a viscous pill on bottom at total depth to aid in setting surface casing.

1

Primexx Energy Corporation * Sands Ranch "16" #1 * Sec 16, T-14-S, R-28-E, Chaves, NM

INTERVAL: 30	00 - 2,000'	7.875" hole	4 days	5.5" csg		1 drill bits	
Product	Function		Treatment	Unit Size	1 sage	Unit Price	Fotal Price
Bentonite	Viscosifier	, hole sweep	Pre-hydrated sweep	100#	90	\$7.84	\$705 60
Biocide (STC)	Biocide		1 gal./100 bbls.	5 gal	5	\$103.20	\$516.00
Caustic Soda	pH additive	е	.25 ppb	50 #	10	\$30.80	\$308.00
Desco	Thinner, di	spersant	As needed	25#	15	\$51.00	\$765 00
Ground Paper	Seepage a	and sweeps	1-3 sacks per 200 feet	40 #	30	\$9.35	\$280.50
Yellow Starch	Filtrate cor	ntrol	4-5 ppb	50 #	60	\$15.48	\$928.80
					later	vul Fotal	53.503.90

Projected Mud Properties

1	Depth	Mud Wt ppg	Viscosity	Filtrate	рН	Chlorides - ppm	i ;
	300-2,000'	8.7-9.5	30-38	N/C-12cc	10.0	10-150K	

General Geological Data

Tops/Bases	Formation	Lithology	Notes/Challenges
300' - 400'	Yates	Anhydrite, Salt, Possible Red Sand	Hole dissolution, key seats, hole cleaning
400' - 1,085'	Seven Rivers/Queen	Anhydrite, Red Sands, poss. Salt	Hole dissolution, key seats, hole cleaning
1,085' - 1,200'	Queen	Sand	
1,200' - 1,700'	Penrose	Sand	
1,700' - 2,000'	San Andres	Dolomite	TD

Interval Notes for 300 - 2,000

Drill out from surface with the existing system. Remain in the working pits. Adjust the pH to 10.0 with Caustic. Maintain the viscosity at 30-32 with additions of pre-hydrated Bentonite. We suggest adding Desco as a thinner as the gel may flocculate as the salt stringers are drilled. Continue to use Paper to control seepage and aid in hole cleaning. Use the jet and dilute method of solids control to keep the weight 8.7-9.0 ppg. As the Salt increases allow the weight to rise to 9.3-9.5 ppg. At total depth adjust the viscosity to 36-38 and lower the filtrate to 12cc or less with Yellow Starch. Some additions of a biocide will prevent any bacteria growth.

NOTE: an alternate method of drilling this section would be to drill out with brine (if a brine source is readily available). We would suggest staying in the reserve if this method is used. Adjust the pH to 10.0 with Caustic. Add MF-55 as needed to flocculate fine solids. At total depth we would suggest sweeping and spotting viscous (50-60) Salt Gel pills to ensure a clean hole for logging and/or casing operations.

Recommended Drilling Fluids Program

Primexx Energy Corporation * Sands Ranch "16" # 1 * Sec 16, T-14-S, R-28-E, Chaves, NM

INTERVAL: 0 - 30	0'	l I" hole	1 days 8.6	25" csg		1 drill bits	
Product	Function		Freatment	Unit Size	Usage	Unit Price	Total Price
Bentonite	Viscosifier,	nole sweep	12-14 ppb	100#	35	\$7 84	\$274.40
Cedar Fiber/Fiber Plug	LCM, sealar	nt	10-20 ppb in pills	40#	10	\$7 27	\$72.70
Ground Paper	seepage and	d sweeps	1-3 sacks per 100 feet	40#	20	\$9.35	\$187.00
Lime	pH additive,	flocculant	1 sack per 15 sacks of benton	ite 50#	5	\$5.74	\$28 70
Maxi-Seal/Fiber Seal/Chem Seal	LCM, sealar	nt	10-20 ppb in pills	40#	10	\$11.88	\$118.80
Plastic	Storage aid		Cover mud	1 roll	1	\$52.50	\$52.50
					lister	val Total:	\$734.10
INTERVAL: 300 - :	2,000'	7.875" hole	4 days 5.5	" csg		1 drill bits	
Product	Function		Freatment	Unit Size	Usage	Unit Price	Total Price
Bentonite	Viscosifier, I	nole sweep	Pre-hydrated sweep	100#	90	\$7 84	\$705.60
Biocide (STC)	Biocide		1 gal./100 bbls.	5 gal.	5	\$103.20	\$516.00
Caustic Soda	pH additive		.25 ppb	50#	10	\$30.80	\$308.00
Desco	Thinner, disp	persant	As needed	25#	15	\$51 00	\$765.00
Ground Paper	Seepage an	d sweeps	1-3 sacks per 200 feet	40#	30	\$9.35	\$280.50
Yellow Starch	Filtrate contr	rol	4-5 ppb	50#	60	\$15 48	\$928.80
					Inter	val Total:	\$3,503.90
	ongra	4.0.1		N	/laterials	Cost:	\$4,238
	10	tals		Trucking Cost: \$2			\$2,000
Part Part	3its	2	Sales	Sales Tax/Produ		6.88%	\$292
	Days 5 Mud \$6,667			Sales Tax/Trucking @ 6.88%			\$138
			<u> </u>	stimated	Total	Mud	\$6,667