District I	ah Dr. Uah	ha NIM 997	40		State	of Nev	v Mexico					Form C-10
1625 N. Fren District II				Energ	Energy Minerals and Natural Resources				irces	May 27, 2004		
1301 W Gras District III	nd Avenue,	Artesia, NM	. 88210		Oil Concernation Division				Submit to appropriate District Office			
1000 Rio Bra	izos Road, A	ztec, NM 8	7410		Oil Conservation Division 1220 South St. Francis Dr.							
District IV 1220 S. St. Fi	rancıs Dr., S	anta Fe. NM	1 87505				M 87505	••				MENDED REPORT
						ŕ				CIZ OI		D A GOND
APP	LICAT	IONFO	<sup>1</sup> OperatorNar	ne and Address	LL, <u>RE-</u>	ENTE	i <mark>r, dee</mark> i	EN		CK,OI	Numb	DAZONE er
THOMPS	ON, J. CI		TX 79768						11181	APLN	lumber	
					<sup>5</sup> Property	Name			30-025-	38		
<sup>3</sup> PropertyCode 36973 Gainer 22				22		, vanie					001	
° ProposedPool 1									<sup>10</sup> Prop	oosedPool 2	2	
CROSSRO	DADS DE	VONIAN	SOUTH	<u> </u>	7		-		<u>.</u>			
			<u>г —                                    </u>		<sup>7</sup> Surface			T-		1		1
UL or lot no K	Section 22	Township 10S	Range 36E	Lot Idn	Feet fr 1677.9	om the	North/Southli SOUTH	1	Feet from the 1697.8'	East/We WEST	estline	County LEA
			1	oosed Bottom					······································	1		
UL or lot no	Section	Township	Range	Lot Idn		rom the	North/South li		Feet from the	East/We	stline	County
		· .										
11 117 1			12 112 11 7 (		tional We	ell Info e/Rotary	ormation			I		
" work	Type Code	G	12 Well Type C	R	" Cabi	e/Rotary	Р		Lease Type Code	40		und Level Elevation
<sup>16</sup> N	fultiple		17 Proposed De	epth		mation			<sup>19</sup> Contractor			<sup>20</sup> Spud Date
N Depth to Grou	unduvator	128:	50		EVONIAN mnearestfres		FOI	RST.	Distance from	mearestsu		1/2008
Depund Oron	unuwatei	201				>	I MILE		Distance nor	mearestsu	>	1 MILE
		75'			0000				·			
	" Synthetic	⊠ <u>12</u> m	ilsthick Clay	Pit Volume	9000 bbls		Drilling <u>Me</u>				٦ ـ .	
	" Synthetic ad-Loop Syst	⊠ <u>12</u> m		-1			Drilling <u>Me</u> Fresh Water	X r	Brine X Diesel/(	Di-based	] Gas/	Aır 🗌
Close	ad-Loop Syst	⊠ <u>12</u> m		<sup>21</sup> Proposed	l Casing a		Drilling <u>Me</u> Fresh Water	X r	Brine 🛛 Diesel/C n		] Gas/.	Air 🗋
Close Hole S	ad-Loop Syst	X <u>12</u> m em □ Cas		<sup>21</sup> Proposed Casing we	l Casing a	und Ce	Drilling <u>Me</u> Fresh Water	X r	n Sacks of Co			Estimated TOC
Close Hole S 17.5	ad-Loop Syst	X <u>12</u> m em Cas 13.375		<sup>21</sup> Proposed Casing we 48	l Casing a	and Ce s	Drilling <u>Me</u> Fresh Water ment Prog	X r	Brine X Diesel/C n Sacks of Co 500		SUR	Estimated TOC FACE
Close Hole 5 17.5 11	ad-Loop Syst	X <u>12</u> m em □ Cas		<sup>21</sup> Proposed Casing we	l Casing a	und Ce	DrillingMe Fresh Water ment Prog letting Depth	X r	n Sacks of Co		SUR	Estimated TOC FACE FACE
Close Hole 5 17.5 11	ad-Loop Syst	X <u>12</u> m em Cas 13.375 8.625		<ul> <li><sup>21</sup> Proposed</li> <li>Casing we</li> <li>48</li> <li>32</li> </ul>	l Casing a	and Ce s 500 5100	DrillingMe Fresh Water ment Prog letting Depth	X r	Brine X Diesel/C n Sacks of Co 500 1000		SUR SUR	Estimated TOC FACE FACE
Close Hole S 17.5 11 7.875	ad-Loop Syst	X <u>12</u> m em Cas 13.375 8.625 5.5	singSize	<ul> <li><sup>21</sup> Proposed</li> <li>Casing we</li> <li>48</li> <li>32</li> <li>17</li> </ul>	I Casing a	and Ce 500 5100 12850	DrillingMe Fresh Water ment Prog letting Depth	gran	Brine X Diesel/C n Sacks of Co 500 1000 2200	ement	SUR SUR 4000	Estimated TOC FACE FACE
Close Hole S 17.5 11 7.875 <sup>22</sup> Describe t	size	X <u>12</u> m em Cas 13.375 8.625 5.5 program. If	sing Size	<ul> <li><sup>21</sup> Proposed</li> <li>Casing we</li> <li>48</li> <li>32</li> <li>17</li> <li>Ins to DEEPEN of Casing we</li> </ul>	I Casing a	and Ce 500 5100 12850 	DrillingMe Fresh Water ment Prog letting Depth	gran	Brine X Diesel/C n Sacks of Co 500 1000 2200	ement	SUR SUR 4000	Estimated TOC FACE FACE
Hole S Hole S 17.5 11 7.875 <sup>21</sup> Describe the I Describe the I 1. DRILL 1	he proposed blowout pre 17-1/2" TC	X 12 m em Cas 13.375 8.625 5.5 program. If vention prog O 500'. SE	sing Size 'this application ram, if any. Use ET 13-3/8" C	<ul> <li><sup>21</sup> Proposed</li> <li>Casing we</li> <li>48</li> <li>32</li> <li>17</li> <li>Ins to DEEPEN of e additional sheet</li> <li>SG. CEMEN</li> </ul>	I Casing a hight/foot	and Ce s 500 5100 12850 12850 CK, give t XFACE	DrillingMe <u>Fresh Water</u> ment Prog letting Depth 	Tran	Arine X Diesel/C n Sacks of Co 500 1000 2200 ent productive zone S.	ement e and propo	SUR SUR 4000	Estimated TOC FACE FACE v productive zone.
Hole S Hole S 17.5 11 7.875 <sup>21</sup> Describe the I Describe the I 1. DRILL 1 2. DRILL 1	he proposed blowout pre 17-1/2" TO 11" HOLE	X 12 m em □ Cas 13.375 8.625 5.5 program. If vention prog 0 500'. SE E TO 5100	sing Size 'this application ram, if any. Use ET 13-3/8" C V. SET 8-5/8	21 Proposed Casing we 48 32 17 nis to DEEPEN o e additional sheet SG. CEMEN " CSG. CEM	I Casing a hight/foot	and Ce s 500 5100 12850 12850 CK, give t XFACE	DrillingMe <u>Fresh Water</u> ment Pros Letting Depth 	Tran	Arine X Diesel/C n Sacks of Co 500 1000 2200 ent productive zone S.	ement e and propo	SUR SUR 4000	Estimated TOC FACE FACE
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7	he proposed blowout pre 17-1/2" T( 1" HOLE ITH 3000 7-7/8" HO	№         12         m           eem         □         Cass           13.375         8.625         5.5           5.5         □         □           program. If vention prog         0.500'. SE         TO 5100           PSI ANN         □         PSI ANN           □LE TO 12         □         □	ing Size ithis application ram, if any. Use T 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5	21 Proposed Casing we 48 32 17 nis to DEEPEN o e additional sheet SG. CEMEN "CSG. CEM VENTER 5-1/2" CSG. C	CEMENT	and Ce 500 5100 12850 CK, give t y. RFACE SURFA	DrillingMe FreshWater ment Prog letting Depth 	yran presee \$X\$	Brine X Diesel/( Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FRO	ement e and propo 000 PSI E OM 7000	SUR SUR 4000 ssed nev 3OP E	Estimated TOC FACE FACE v productive zone. OOUBLE RAM O INT. CSG.
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7	he proposed blowout pre 17-1/2" T( 1" HOLE ITH 3000 7-7/8" HO	№         12         m           eem         □         Cass           13.375         8.625         5.5           5.5         □         □           program. If vention prog         0.500'. SE         TO 5100           PSI ANN         □         PSI ANN           □LE TO 12         □         □	ing Size ithis application ram, if any. Use T 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5	21 Proposed Casing we 48 32 17 ns to DEEPEN o e additional sheet SG. CEMEN "CSG. CEM	CEMENT	and Ce 500 5100 12850 CK, give t y. RFACE SURFA	DrillingMe FreshWater ment Prog letting Depth 	yran presee \$X\$	Brine X Diesel/( Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FRO	ement e and propo 000 PSI E OM 7000	SUR SUR 4000 ssed nev 3OP E	Estimated TOC FACE FACE v productive zone. OOUBLE RAM O INT. CSG.
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7	he proposed blowout pre 17-1/2" T( 1" HOLE ITH 3000 7-7/8" HO	№         12         m           eem         □         Cass           13.375         8.625         5.5           5.5         □         □           program. If vention prog         0.500'. SE         TO 5100           PSI ANN         □         PSI ANN           □LE TO 12         □         □	ing Size ithis application ram, if any. Use T 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5	21 Proposed Casing we 48 32 17 115 to DEEPEN of additional sheet SG. CEMEN VENTER 5-1/2" CSG. CEM VENTER 5-1/2" CSG. CO OL OR FORM	CEMENT MATION	and Ce 500 5100 12850 CK, give t SURFACE SURFA FROM PACKE	DrillingMe FreshWater ment Pros etting Depth 	X F ran prese SXS ,000 0' . •	Arine X Diesel/( Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FROM CEMENT FROM CEMENT FROM	ement e and propo 000 PSI E OM 7000	SUR SUR 4000 ssed nev 3OP E	Estimated TOC FACE FACE v productive zone.
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the I Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7	he proposed blowout pre 17-1/2" T( 1" HOLE ITH 3000 7-7/8" HO	№         12         m           eem         □         Cass           13.375         8.625         5.5           5.5         □         □           program. If vention prog         0.500'. SE         TO 5100           PSI ANN         □         PSI ANN           □LE TO 12         □         □	ing Size ithis application ram, if any. Use T 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5	21 Proposed Casing we 48 32 17 115 to DEEPEN of additional sheet SG. CEMEN VENTER 5-1/2" CSG. CEM VENTER 5-1/2" CSG. CO OL OR FORM	CEMENT MATION	and Ce 500 5100 12850 CK, give t SURFACE SURFA FROM PACKE	DrillingMe <u>FreshWater</u> <u>ment Pros</u> <u>ietting Depth</u> 	X F ran prese SXS ,000 0' . •	Arine X Diesel/( Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FROM CEMENT FROM CEMENT FROM	ement e and propo 000 PSI E OM 7000	SUR SUR 4000 osed nev 3OP E	Estimated TOC FACE FACE v productive zone. OUBLE RAM O INT. CSG.
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7	he proposed blowout pre 17-1/2" T( 1" HOLE ITH 3000 7-7/8" HO	№         12         m           eem         □         Cass           13.375         8.625         5.5           5.5         □         □           program. If vention prog         0.500'. SE         TO 5100           PSI ANN         □         PSI ANN           □LE TO 12         □         □	ing Size ithis application ram, if any. Use T 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5	21 Proposed Casing we 48 32 17 115 to DEEPEN of additional sheet SG. CEMEN VENTER 5-1/2" CSG. CEM VENTER 5-1/2" CSG. CO OL OR FORM	CEMENT MATION	and Ce 500 5100 12850 CK, give t SURFACE SURFA FROM PACKE	DrillingMe FreshWater ment Pros etting Depth 	X F ran prese SXS ,000 0' . •	Arine X Diesel/( Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FROM OVAL	ement e and propo 000 PSI E OM 7000 ECI FEB 2	SUR SUR 4000 osed nev BOP D ' INT 2 6 20	Estimated TOC FACE FACE v productive zone. OUBLE RAM O INT. CSG. VED
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7	he proposed blowout pre 17-1/2" T( 1" HOLE ITH 3000 7-7/8" HO	№         12         m           eem         □         Cass           13.375         8.625         5.5           5.5         □         □           program. If vention prog         0.500'. SE         TO 5100           PSI ANN         □         PSI ANN           □LE TO 12         □         □	ing Size ithis application ram, if any. Use T 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5	21 Proposed Casing we 48 32 17 115 to DEEPEN of additional sheet SG. CEMEN VENTER 5-1/2" CSG. CEM VENTER 5-1/2" CSG. CO OL OR FORM	CEMENT MATION	and Ce 500 5100 12850 CK, give t SURFACE SURFA FROM PACKE	DrillingMe FreshWater ment Pros etting Depth 	X F ran prese SXS ,000 0' . •	Arine X Diesel/( Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FROM OVAL	ement e and propo 000 PSI E OM 7000 ECI FEB 2	SUR SUR 4000 osed nev BOP D ' INT 2 6 20	Estimated TOC FACE FACE v productive zone. OUBLE RAM O INT. CSG.
Close Hole S 17.5 11 7.875 <sup>21</sup> Describe the 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7 WITH CEN	he proposed blowout pre 17-1/2" T( 11" HOLE 1TH 3000 7-7/8" HO MENTAT	X 12 m em □ Cas 13.375 8.625 5.5 program. If vention prog O 500'. SE TO 5100 PSI ANN 0 E TO 12 ION TOO	sing Size This application ram, if any. Use SET 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5 ULAR PRE 2,850'. SET 5 ().50'. SET 5	21 Proposed Casing we 48 32 17 15 to DEEPEN o e additional sheet SG. CEMEN "CSG. CEMEN	ICasing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION X <b>pires 2</b> <b>Unless I</b> et to the best	and Ce 500 5100 12850 CK, give t SURFACE SURFA FROM PACKE	DrillingMe <u>FreshWater</u> <u>ment Pros</u> <u>etting Depth</u> 	X F ran prese SXS 0' . f vay	Arine X Diesel/( n Sacks of Co 500 1000 2200 ant productive zono S. D SXS. NU 50 CEMENT FR( TOVAL	ement e and propo 000 PSI E 0M 7000 ECI FEB 2 DBE	SUR SUR 4000 seed nev BOP E 0' INT 6 20 SS	Estimated TOC FACE FACE v productive zone. OUBLE RAM O INT. CSG. VED
Hole S Hole S 17.5 11 7.875 <sup>21</sup> Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7 WITH CEN	he proposed blowout pre 17-1/2" TC 11" HOLE 1TH 3000 7-7/8" HO MENTAT	X 12 m em □ Cas 13.375 8.625 5.5 program. If vention prog 0 500'. SE 2 TO 5100 PSI ANN LE TO 12 ION TOO	sing Size 'this application ram, if any. Use ET 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5 ULAR PRE 2,850'. SET 5 ULAR PRE 2,850'. SET 5 ULAR PRE 2,850'. SET 5 ULAR PRE 2,850'. SET 5 Control of the second se	21 Proposed Casing we 48 32 17 15 to DEEPEN o e additional sheet SG. CEMEN "CSG. CEMEN	I Casing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION <b>Xpires 2</b> <b>Unless I</b> e to the best II be	and Ce 500 5100 12850 CK, give t SURFACE SURFA FROM PACKE	DrillingMe FreshWater ment Pros etting Depth 	X F ran prese SXS 0' . f vay	Arine X Diesel/( Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FROM OVAL	ement e and propo 000 PSI E 0M 7000 ECI FEB 2 DBE	SUR SUR 4000 seed nev BOP E 0' INT 6 20 SS	Estimated TOC FACE FACE v productive zone. OUBLE RAM O INT. CSG. VED
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the I Describe the I 1. DRILL 1 STACK W 3. DRILL 7 WITH CEN <sup>23</sup> I hereby cer of my knowle constructed a an (attached)	tify that the edge and behaccording to behavior	X 12 m em □ Cas 13.375 8.625 5.5 program. If vention prog 0 500'. SE 2 TO 5100 PSI ANN LE TO 12 ION TOO PSI ANN LE TO 12 ION TOO	sing Size 'this application ram, if any. Use ET 13-3/8" C V. SET 8-5/8 JULAR PRE 2,850'. SET 5 JULAR PRE 2,850'. SET 5 JULAR PRE 2,850'. SET 5 JULAR PRE 2,850'. SET 5 Control of the set	21 Proposed Casing we 48 32 17 15 to DEEPEN of additional sheet SG. CEMEN "CSG. CEMEN	I Casing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION <b>Xpires 2</b> <b>Unless I</b> e to the best II be	and Ce 500 5100 12850 CK, give t RFACE SURFA FROM PACKE Years Drillin	DrillingMe FreshWater ment Pros Jetting Depth / / / / / / / / / / / / /		Arine Diesel/C Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FRO OVAL ONSERVAT	ement e and propo 000 PSI E 0M 7000 ECI FEB 2 DBE TION DI , ,	SUR SUR 4000 osed nev 30P E 0' INT 6 20 SS	Estimated TOC FACE FACE v productive zone.
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the Describe the l 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7 WITH CEN <sup>23</sup> I hereby cer of my knowle constructed a an (attached) Printed name:	tify that the according to JIM ST	12       m         em	sing Size This application ram, if any. Usa ET 13-3/8" C V. SET 8-5/8 IULAR PRE 2,850'. SET 2 JL. ( DV TOO given above is t certify that th guidelines X, a roved plan .	21 Proposed Casing we 48 32 17 15 to DEEPEN of additional sheet SG. CEMEN "CSG. CEMEN	I Casing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION <b>Xpires 2</b> <b>Unless I</b> e to the best II be	solution of the second	DrillingMe FreshWater ment Pros letting Depth / he data on the WITH 425 CE WITH TD TO 800 CR) From A g Underv OIII ed by: CC DIS		Arine Diesel/C Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FRO OVAL ONSERVAT UUUUL T SUPERVISO	ement e and propo 000 PSI E OM 7000 FEB 2 DBE TION DI	SUR SUR 4000 osed nev BOP E 'INT C 6 20 SS	Estimated TOC FACE FACE v productive zone. OUBLE RAM O INT. CSG. VED D08 OCD
Hole S Hole S 17.5 11 7.875 <sup>22</sup> Describe the 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7 WITH CEN <sup>23</sup> I hereby cer of my knowle constructed a an (attached) Printed name: Title:	he proposed blowout pre 17-1/2" T( 1" HOLE 1TH 3000 /-7/8" HO MENTAT. MENTAT.	12       m         eem       Cass         13.375       8.625         5.5	sing Size 'this application ram, if any. Use CT 13-3/8" C '. SET 8-5/8 IULAR PRE 2,850'. SET 2 JL. ( DV TO given above is t certify that th guidelines X, roved plan . 1 ANAGER	21 Proposed Casing we 48 32 17 15 to DEEPEN of additional sheet SG. CEMEN "CSG. CEMEN	I Casing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION <b>Xpires 2</b> <b>Unless I</b> e to the best II be	and Ce 500 5100 12850 CK, give t RFACE SURFA FROM PACKE Years Drillin	DrillingMe FreshWater ment Pros letting Depth / he data on the WITH 425 CE WITH TD TO 800 CR) From A g Underv OIII ed by: CC DIS		Arine Diesel/C Sacks of Co 500 1000 2200 Int productive zone S. D SXS. NU 50 CEMENT FRO OVAL ONSERVAT UUUUL T SUPERVISO	ement e and propo 000 PSI E 0M 7000 ECI FEB 2 DBE TION DI , ,	SUR SUR 4000 osed nev BOP E 'INT C 6 20 SS	Estimated TOC FACE FACE v productive zone.
Hole S Hole S 17.5 11 7.875 <sup>21</sup> Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7 WITH CEN <sup>23</sup> I hereby cer of my knowle constructed a an (attached) Printed name: Title: E-mail Addres	tify that the edge and behaccording to JIM ST OPERA oss. jstevens	12       m         eem       Cass         13.375       8.625         5.5	sing Size	21 Proposed Casing we 48 32 17 15 to DEEPEN of additional sheet SG. CEMEN "CSG. CEMEN	I Casing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION <b>Xpires 2</b> <b>Unless I</b> e to the best II be	Approv	DrillingMe FreshWater ment Pros Jetting Depth / / / / / / / / / / / / /		Arine X Diesel/( Sacks of Co 500 1000 2200 Int productive zono S. D SXS. NU 50 CEMENT FRO OVAL OVAL DNSERVAT UUUU T SUFFAVISO 2 1 200 C	ement e and propo 000 PSI E 0M 7000 FEB 2 DBE TION DI , , , , , , , , , , , , , , , , , , ,	SUR SUR 4000 osed nev 30P D 0' INT 6 20 SS IVIS ate:	Estimated TOC FACE FACE v productive zone.
Hole S Hole S 17.5 11 7.875 <sup>21</sup> Describe the I 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7 WITH CEN <sup>23</sup> I hereby cer of my knowle constructed a an (attached) Printed name: Title: E-mail Addres	he proposed blowout pre 17-1/2" T( 1" HOLE 1TH 3000 /-7/8" HO MENTAT. MENTAT.	12       m         eem       Cass         13.375       8.625         5.5	sing Size 'this application ram, if any. Use CT 13-3/8" C '. SET 8-5/8 IULAR PRE 2,850'. SET 2 JL. ( DV TO given above is t certify that th guidelines X, roved plan . 1ANAGER om	21 Proposed Casing we 48 32 17 15 to DEEPEN of additional sheet SG. CEMEN "CSG. CEMEN	ICasing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION <b>Xpires 2</b> <b>Unless I</b> e to the best II be t, or	Approv	DrillingMe FreshWater ment Pros Jetting Depth / he data on the WITH 425 CE WITH TD TO 800 CR) From A g Underv OIII ed by: CC DIS al Date: MUTIONS		Arine Diesel/C Sacks of Co 500 1000 2200 Int productive zono S. D SXS. NU 50 CEMENT FRO CEMENT FRO DNSERVAT DNSERVAT DNSERVAT DNSERVAT 2 1 200 APPROVAL	ement e and propo 000 PSI E 0M 7000 ECI FEB 2 DBE TION DI	SUR SUR 4000 osed nev 30P D 0' INT C 6 20 SS IVIS ate:	Estimated TOC FACE FACE v productive zone.
Hole S Hole S 17.5 11 7.875 <sup>21</sup> Describe the l 1. DRILL 1 2. DRILL 1 STACK W 3. DRILL 7 WITH CEN <sup>23</sup> I hereby cer of my knowle constructed a an (attached) Printed name: Title: E-mail Addres	tify that the edecording to blowout pre- tify that the dge and beh according to blatter ative JIM ST OPERA operation	12       m         eem       Cass         13.375       8.625         5.5	sing Size 'this application ram, if any. Use CT 13-3/8" C '. SET 8-5/8 IULAR PRE 2,850'. SET 2 JL. ( DV TO given above is t certify that th guidelines X, roved plan . 1ANAGER om	21 Proposed Casing we 48 32 17 ins to DEEPEN of additional sheet SG. CEMEN 'CSG. CEMEN 'S CSG. CEMEN	ICasing a ight/foot or PLUG BAG ts if necessar IT TO SUF ENT TO SUF ENT TO S CEMENT MATION <b>Xpires 2</b> <b>Unless I</b> e to the best II be t, or	Approv	DrillingMe FreshWater ment Pros letting Depth / / / / / / / / / / / / /		Arine X Diesel/( Sacks of Co 500 1000 2200 Int productive zono S. D SXS. NU 50 CEMENT FRO OVAL OVAL DNSERVAT UUUU T SUFFAVISO 2 1 200 C	ement e and propo 000 PSI E 000 PSI E 0000 PSI E 000 PSI	SUR SUR 4000 osed nev 30P D 0' INT C 6 20 SS IVIS ate:	Estimated TOC FACE FACE v productive zone.

DISTRICT 1 1625 N. French Dr., Hobbs, NM 88240

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised October 12, 2005

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

#### OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

AMENDED REPORT

	WELL	LOCATION	AND	ACREAGE	DEDICATION	PL	٦T
--	------	----------	-----	---------	------------	----	----

30-025	-35	1792	(	(3560) Crossroads Devonian					South	
Property Coo					<sup>5</sup> Property N				<sup>6</sup> Well Number	
36973					GAINER				I	
<sup>7</sup> OGRID No.					<sup>8</sup> Operator N	lame			<sup>9</sup> Elevation	
11181			J. CLE	O THOMP	SON & JAMES	CLEO THOMPSO	N, JR., L.P.		<b>4</b> 010'	
					<sup>10</sup> Surface L	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
к	22	10-S	36-E		1677.9 <b>'</b>	South	1697.8'	West	Lea	
			" Bo	ottom Hol	e Location If	Different From	Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	<sup>7</sup> County	
Dedicated Acres	<sup>13</sup> Joi	nt or Infill	<sup>14</sup> Consolid	ation Code	<sup>15</sup> Order No.				]	
80							•			

#### NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



# H<sub>2</sub>S CONTINGENCY PLAN

4.

4

J. Cleo Thompson Gainer 22 #1 Unit K: Section 22, T10S-R36 1677.9' FSL, 1697.8' FWL Lea County, NM

# **TABLE OF CONTENTS**

1

,

Table of Contents	Page 2
Scope & Objectives	Page 3
General Emergency Plan	Page 4
J. Cleo Thompson emergency call out numbers	Page 5
Emergency notification numbers	Page 6
Additional Emergency notification numbers	Page 7
Emergency procedures of uncontrollable release of H <sub>2</sub> S gas	Page 8
Ignition procedures of uncontrollable well conditions	Page 9
Instructions for igniting the well	Page 10
Emergency equipment requirements	Page 11 & 12
Toxic effects of H <sub>2</sub> S	Page 13
Physical affects	Page 14
Toxicity of Hydrogen Sulfide (H <sub>2</sub> S)	Page 15
SCBA instructions	Page 16
H <sub>2</sub> S poisoning rescue and first aid	Page 17
Map of Gainer 22 #1	Page 18

#### **SCOPE**

This plan establishes J. Cleo Thompson guidelines for all company and contract employees whose duties may involve exposure to hydrogen sulfide gas  $(H_2S)$  on the Gainer 22 #1. This well is located 1677.9' FSL & 1697.8' FWL in Unit K, Section 22 of the Township 10-S, Range 36-E of Lea County, New Mexico. This plan also establishes procedure for isolation of the work site and evacuating the public on the condition that:

- A. There is a release of  $H_2S$  that compasses the radius of exposure (ROE) in this plan,
- B. There are persons and/or roads within the ROE and,
- C. There is the endangerment of human or animal life within the ROE.

#### **OBJECTIVE**

## The objective of the J. Cleo Thompson Company is to:

- A. Prevent any and all accidents, and to prevent the uncontrolled release of  $H_2S$  into the atmosphere and,
- B. Provide proper evacuation procedures to cope with emergencies and,
- C. Provide immediate and adequate medical attention should in injury occur.

It should be noted that J. Cleo Thompson does not expect there top be any release of  $H_2S$  into the atmosphere but has taken the necessary steps to react properly to and control any hazards encountered on any of our facilities.

## **GENERAL EMERGENCY ACTION**

#### In the event of an emergency, the following action should be initiated,

- 1. All personnel shall immediately evacuate to an up-wind and up-hill "safe breathing" area.
- 2. Those who must enter the hazard area must wear positive pressure self-contained breathing apparatus and must use other appropriate safety equipment as outlined on page 10.
- 3. Isolate the well, if possible.
- 4. Use the "Buddy System" at all times.
- 5. Account for all personnel and take appropriate action as necessary for personnel safety.
- 6. Display the appropriate color warning flag to describe the type of emergency.
- 7. The *J. Cleo Thompson* supervisor will assess the situation and assign duties to various persons to bring the situation under control. The *J. Cleo Thompson* supervisor will assign the notification of local emergency response agencies and residents. Media inquiries are be referred to:

J. Cleo Thompson 325 North St. Paul, Suite 4300 Dallas, Texas 75201

## J. CLEO THOMPSON EMERGENCY CALL OUT NUMBERS

. .

NAME	OFFICE NUMBER	CELLULAR NUMBER	HOME NUMBER
Johnnie Holder Drilling Foreman	(432)550-8887	(432)556-9325	(432)363-8054
Jim Stevens Operations Manager	(432)550-8887	(432)664-2917	(432)563-5504
John Hughes Production Foreman	(432)634-8403	(432)661-5313	(806)287-1225

A. C. C.

J. Cleo Thompson is aware and will abide by city; county and state burn ban policies.

## Emergency Notification Numbers Lea County, NM

for a

Organization or Agency	Phone Number
New Mexico State Police	(505)885-3137
Lea County Sheriff's Department	(505)396-3611
Tatum Sheriff's Department	(505)398-4444
Emergency Medical Service (Ambulance)	911
State Emergency Response Center Max Johnson (Chairman)	(505)476-9620
Tatum Fire Department	911
Bureau Land Management (District II)	(505)234-5972
Oil Conservation Division (District II)	(505)748-1283
National Response Center (NRC)	(800)424-8802
Chemtrec	(800)424-9300
Midland Safety & Health	(432)520-3838

## <u>Gainer 22 #1</u>

,

## Neighboring Residents to Gainer 22 #1

NONE

. . .

## <u>EMERGENCY PROCEDURES FOR UNCONTROLLABLE RELEASE OF</u> <u>HYDROGEN SULFIDE GAS (H<sub>2</sub>S)</u>

- 1. Secure and don self-contained breathing apparatus.
- 2. Remove all personnel to up-wind and up-hill "safe breathing" zone.
- 3. Contact all concerned employees and immediate supervisor for instructions.
- 4. Take steps to protect and/or remove the general public to an upwind area away from source of  $H_2S$ .
- 5. Deny entry to unnecessary personnel.
- 6. Notify necessary public safety personnel:
  - a. State Police if on or near a state road
  - b. Sheriff's Department if on or near a county road

(For assistance in the evacuation of the general public and to help maintain roadblocks)

- 7. Contact the Bureau of Land Management (BLM)
- 8. While attempting to control the release, maintain tight security and safety procedures.
- 9. Use the "Buddy System" when entering any hazardous area.

The responsibility of this plan is with the <u>J. Cleo Thompson</u> supervisor(s) who shall be in complete command during the emergency.

## IGNITION PROCEDURES FOR UNCONTROLLABLE WELL CONDITIONS

The decision to ignite the well is the decision of the company supervisor(s). This decision should be made only as a last resort and in a situation where it is determined that:

- Human life and/or property are endangered
- There is no hope of controlling the blowout under the prevailing conditions at the well.

## **INSTRUCTIONS FOR IGNITING THE RELEASE**

- 1. Two personnel are required for the ignition operation. They **must** wear positive self-contained breathing apparatus and a D-ring style full body safety harness with a non-flammable safety rope attached. (Must be an OSHA approved body harness)
- 2. One (safety) person will test the atmosphere for explosive gases with an approved Triple-range (H<sub>2</sub>S, O<sub>2</sub>, LFL) monitor.
- 3. Primary method of ignition shall be with 25mm flare gun with range of approximately 500 feet.
- 4. Ignite up-wind and do not approach any closer than is warranted.
- 5. Select a safe ignition site, which offers ultimate egress.
- 6. Before activating flare gun, check for presence of combustible gas.
- 7. After ignition, continue emergency action and procedure as before.
- 8. All unassigned personnel will limit their actions to those directed by the company supervisor.

After the well is ignited, burning  $H_2S$  will produce  $SO_2$ , which is also highly toxic. Do not assume the area is safe after the well is ignited.

A NO SMOKING POLICY shall be strictly enforced on location at all times.

# DANGER

## **NO SMOKING**

## **EMERGENCY EQUIPMENT REQUIREMENTS**

- 1. Respiratory Protection
  - **Rescue Units (SCBA's):** One (1) unit shall be placed at each briefing area and 2 shall be stored in the safety trailer.
  - Work/Escape Units: Four (4) units shall be stored on the rig floor connected to the safety trailer with sufficient hose to allow workers to adequately perform duties with minimal restriction.
  - **Emergency Escape Units:** Four (4) units shall be stored in the top dog house for emergency evacuation purposes.
- 2. Signs and Flags
  - One (1) Condition Sign shall be placed at location entrance with the following language:

DANGER H<sub>2</sub>S

### POTENTIAL DANGER (GREEN)

### MODERATE DANGER (YELLOW OR ORANGE)

### **EXTREME DANGER (RED)**

# Condition flags shall be displayed at the sign in one of the designations:

# Green/normal conditionsYellow or Orange / potential dangerRed/dangerH2S Present

- 3. Briefing Area: Two (2) briefings areas, designed by signs, shall be located perpendicular to each other and be easily visible and readily accessible.
- 4. Windsocks: Two (2) windsocks shall be strategically placed where they are easily visible from all points.

#### 5. Hydrogen Sulfide Detectors and Alarms:

• One (1) stationary  $H_2S$  monitor with three sensors shall be located on the rig in the top dog house. The  $H_2S$  monitor shall be calibrated to alarm at 10PPM for the low alarm (visual alarm) and 15 PPM for the high alarm (audible alarm). Calibrations shall be checked every 30 days or as needed. The sensors shall be located as follows:

#1 – Rig Floor

de.

- #2 Bell Nipple
- #3 Flow line or where the well bore fluid is discharged
- A gas sampling pump, with detector tubes capable of measuring H<sub>2</sub>S gas, shall be located in the safety trailer.

#### 6. Additional Rescue Equipment

- One hundred Feet (100') of 5/8" OSHA approved rope.
- Two (2) OSHA approved full body harness
- One (1) Stretcher

#### 7. Fire Extinguishers:

• One (1) 20#, Class ABC fire extinguisher shall be located in the safety trailer.

#### 8. Communication:

 Cellular Phones/Mobile Phones or two-way radios shell be available via the vehicles on location and on the rig floor.

## **TOXIC EFFECTS OF HYDROGEN SULFIDE**

Hydrogen Sulfide  $(H_2S)$  is extremely toxic. The accepting ceiling concentration for an eight (8) hour exposure is 10PPM, which is .001% by volume. Hydrogen sulfide  $(H_2S)$  is colorless. Hydrogen Sulfide  $(H_2S)$  is heavier than air, the specific gravity is equal to 1.19, which is 20% heavier than ambient temp air, which is 1.00. Hydrogen sulfide  $(H_2S)$  can form an explosive mixture with air between 4.3% and 46.0%. By volume hydrogen sulfide  $(H_2S)$  is as toxic as hydrogen cyanide and is between 5-6 times more toxic than carbon monoxide.

Common Name	Chemical Formula	Specific Gravity	Threshold Limit <sup>1</sup>	Hazardous Limit <sup>2</sup>	Lethal Concentration <sup>3</sup>
Hydrogen Cyanide	HCN	0.94	10 PPM	150 ppm/Hr	300PM
Hydrogen Sulfide	H <sub>2</sub> S	1.189	10 PPM <sup>4</sup> 15 PPM <sup>5</sup>	100 PPM/Hr	600 PM
Sulfur Dioxide	SO <sub>2</sub>	2.21	2 PPM	N/A	100 PPM
Chlorine	CL <sub>2</sub>	2.45	1 PPM	4 PPM/Hr	1000 PPM
Carbon Monoxide	СО	.97	50 PPM	400 PPM/Hr	1000 PPM
Carbon Dioxide	CO <sub>2</sub>	1.52	5000 PPM	5%	10%
Methane	Le CH <sub>4</sub> 0.55 90,000 PPM Com		Combustible @5%	N/A	

#### **TOXICITY OF VARIOUS GASES**

(1)Threshold limit – Concentration at which it is believed that all workers may be repeatedly exposed, day after day with out adverse effects also referred to as Time Weighted Average (TWA).

(2) Hazardous limit - Concentration that may cause death

- (3) Lethal concentration Concentration that will cause death with short-term exposure
- (4) Threshold limit 10PPM NIOSH guide to chemical hazards
- (5) Short term threshold limit Concentration higher than Threshold limit with limits placed on time one can be exposed. Exposure time is limited to15 minutes followed by one (1) hour in fresh air. This cycle can be repeated for four (4) times during a normal eight (8) hour work day.

# PHYSICAL EFFECTS OF HYDROGEN SULFIDE (H<sub>2</sub>S)

Co	ncentrations	Physical Effects			
0.0001%	10 PPM	Obvious & unpleasant odor. Safe for eight			
		(8) hour exposure.			
0.005%	50 PPM	Can cause some flu-like systems and can			
0.00570		cause pneumonia			
0.01%	100 PPM	<b>IDLH<sup>1</sup></b> . Kills the sense of smell in 3 to 15			
0.01%		minutes. May irritate eyes and throat.			
0.02%	200 PPM	Kills the sense of smell rapidly. Severely			
0.0270		irritates eyes and throat. Severe flu-like			
		symptoms after 4 or more hours may cause			
		lung damage and/or death.			
0.06%	600 PPM	Loss of consciousness quickly, death will			
0.0070		result if not rescued promptly.			

(1) Immediately dangerous to life or heath

1 . . .

## TOXICITY OF HYDROGEN SULFIDE

H <sub>2</sub> S % (PPM)	0 – 2 Minutes	0 – 15 Minutes	15 – 30 Minutes	30 Minutes to 1 Hours	1–4 Hours	4 - 8 Hours	8 – 48 Hours
0.005 (50 ppm) 0.010 (100 ppm)				Mild Conjunctivitis; Respiratory Tract Irritation			
0.010 (100 ppm) 0.015 (150 ppm)		Coughing; Irritation of eyes; loss of sense of smell	Disturbed Respiration Pain in eyes; Sleepiness	Throat	Salivation & Mucous Discharge; Sharp Pain in eyes; Coughing	Increased Symptoms*	Hemorrha & Death*
0.015 (150 ppm) 0.020 (200 ppm)		Loss of Sense of Smell	Throat & Eye Irritation	Throat & Eye Irritation	Difficult breathing, Blurred Vision, Light & Shy	Serious irritating Effects	Hemorrha & Death*
0.025 (250 ppm) 0.035 (350 ppm)	Irritation of Eye and Loss of Sense of Smell	Irritation of Eyes	Painful Secretion of Tears, Weariness	Light & Shy; Nasal Catarrh, Pain in Eyes, Difficult Breathing	Hemorrhage & Death		
0.035 (350 ppm)		Irritation of Eye and Loss of Sense of Smell	Difficult Respiration; Coughing, Irritation of Eyes	Increased Irritation of Eyes & Nasal Tract; Dull pain in Head; Weariness; Light & Shy	Dizziness, Weakness; Increased Irritation; Death	Death*	
0.050 (500 ppm)	Coughing, Collapse & Unconsciousness	Respiratory Disturbances; Irritation of Eyes; Collapse	Serious Eye Irritation; Palpitation of Heart, Few Cases of Death	Severe pain in eyes and head, Dizziness; Trembling of Extremities; Great Weakness & Death*			
0.060 (600 ppm) 0.070 (700 ppm) 0.080 (800 ppm) 0.100 (1000 ppm) 1.150 (1500 ppm)	Collapse* Unconsciousness Death*	Collapse* Unconsciousness Death					

\*Data secured from experiments of dogs, which have susceptibility similar to men/women.

**\*\*PPM parts per million** 

phase and a

## THE USE OF SELF-CONTAINED BREATHING AIR EQUIPMENT

SCBA should be worn when:

t e e

- Working near the top or on top of any tank.
- Disconnecting any line where  $H_2S$  can reasonably be expected.
- Sampling air in the area to determine if toxic concentration of H<sub>2</sub>S exist.
- Working in areas where over 10PPM of H<sub>2</sub>S has been detected.
- At any time there is a doubt as to the  $H_2S$  level in the area to be entered.

Air quality testing shall be continuous throughout the entire operation if a container is breeched or in a hazardous location.

All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.

Facial hair and standard eyeglasses are not allowed with SCBA use.

Contact lenses are never allowed with the use of SCBA.

The SCBA shall be inspected monthly.

After each use, the SCBA shall be cleaned, disinfected, serviced, inspected and refilled to proper specifications.

## <u>RESCUE & FIRST AID FOR VICTIMS OF HYROGEN SULFIDE (H<sub>2</sub>S)</u> POISONING

Do not panic!

/ . .

Remain calm and think with your head and not your heart.

Don breathing apparatus

Protect yourself, then remove victim to fresh air as quickly as possible. When evacuating: walk not run, upwind and uphill from the source or crosswind to achieve upwind.

Notify emergency response personnel

Provide artificial respiration and/or CPR, as necessary.

Remove all contaminated clothing to avoid further exposure.

A minimum of two (2) personnel on location shall be trained in CPR and First Aid.