No. 1						
Form 3160-3 (March 2012)		HOBBS C DEC 1 9 2016 RECEIVED			FORM AP OMB No. 1	
(March 2012)		OCD HOUDS SSC			Expires Octob	
UNITED STAT	EC	DEC	CD	5. Lease Se	rial No.	
DEPARTMENT OF THE		D- 92010		SHL: N		04, NMNM073240
BUREAU OF LAND MAI	NACEMENT	RECE			BHL: NMN	M067111
APPLICATION FOR PERMIT TO	D DRILL OR	REENTER		6. If Indian	, Allotee or Tr	ibe Name
1a. Type of Work:   DRILL  REENTER	,			7 If Unit o	r CA Agreeme	nt, Name and No.
				. II Olico	er rigicellie	
1b. Type of Well: 🔽 Oil Well 🗌 Gas Well 🗌 Other	[	Single Zone Multiple Z			ame and Well ronimo Fede	I No. 317177 eral Com #11H
2. Name of Operator COG Operating LLC				9. API Well		+7503
	ne No. (include	area code)		10. Field an	d Pool, or Exp	loratory 722
2208 West Main Street Artesia, NM 88210	5	75-748-6940			GEM; Bor	ne Spring
4. Location of Well (Report location clearly and in accordance with any State		the second se		11. Sec., T.	R.M. or Blk an	d Survey or Area
At surface 636' FSL & 411' FWL (SWSW) S	Section 19-T19	S-R33E				
At proposed prod. Zone 50' FSL & 330' FWL (SWSW) Se	ection 31-T19S	S-R33E			Section 19 -	T195 - R33
14. Distance in miles and direction from nearest town or post office*				12. County	or Parish	13. State
Approximately 12 miles south	of Maljamar				County	NM
15. Distance from proposed*		16. No. of acres in lease	17. Spacir	ng Unit ded	icated to this	well
location to nearest 50' property or lease line, ft.		NMNM0077004: 802.25 NMNM073240: 308.56			324.9	
(Also to nearest drig. Unit line, if any)		NMNM067111: 321.72			524.5	
18. Distance from location*		19. Proposed Depth	20. BLM/	BIA Bond N	o. on file	
to nearest well, drilling, completed, SHL: 615' BHL: 2	2312'	MD TUD				
applied for, on this lease, ft.		TVD: 20,837' MD: 10,000'			000740 &NM	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		22. Approximate date work will sta	art		23. Estimated	
3599.6' GL		10/1/2016				30 days
The following, completed in accordance with the requirements of Onsh		ttachments	this form			
	iore on and ot	1				
<ol> <li>Well plat certified by a registered surveyor.</li> </ol>		4. Bond to cover the operation	ns unless c	overed by a	an existing bo	nd on file (see
<ol> <li>A Drilling Plan</li> <li>A Surface Use Plan (if the location is on National Forest System Lar</li> </ol>	nds the	Item 20 above). 5. Operator certification				
SUPO shall be filed with the appropriate Forest Service Office).	nus, the	6. Such other site specific info	rmation ar	nd/or plans	as may be red	uired by the
		authorized officer.				,,,
25. Signature	Name (Printed	l/Typed)			Date	
MALL KOIN		Mayte Reyes			7-12	1-2016
Title		Wayte neves				)
Regulatory Analyst						
	Name (Printed	/Typed)			Date /	/
Ty Bryson	1.1	Bruson			12/12	2/2016
	Office	010001				10010
NATING FIRED MAD	10	shad				
Application approval does not warrant or certify that the applicant hold	ls legan or equ	itable title to those rights in the su	biect lease	e which wo	uld entitle the	applicant to
conduct operations theron.	io legan or equ		bjeet least			apprease to
Conditions of approval, if any, are attached.		year and an and		10 <sup>1</sup> 1000 <sup>1</sup>	·	
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c	crime for any r	person knowingly and willfully-to-me	ake to any	v departme	nt or agency (	of the United
states any false, fictitious or fraudulent statements or representations a	as to any matte	er within its jurisdiction.	TOVAL	FOR	W// PVU	2.1.75 miles
Continued on page 2)	Vn	1.6				(Instructions on page 2)
	NEL	PPROVAL SU	RIFCT	TO DT		
	121	GENERAL REQ		AENITO		
SFE ATTACHED FOR					AND	
CONDITIONS OF APPROVAL		SPECIAL STIPL	JLAII(	JNZ		
CONDITIONO		ATTACHED				

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#### 1. Geologic Formations

TVD of target	10,000' EOL	Pilot hole depth	NA
MD at TD:	20,837'	Deepest expected fresh water:	185

Basin

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Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1174	Water	
Top of Salt	1374	Salt	
Tansil	2701		
Yates	2926		
Capitan Reef	3336	Water	
Delaware	5179	Oil/Gas	
Bone Spring	7766	Oil/Gas	
1 <sup>st</sup> Bone Spring	8886	Oil/Gas	2
2 <sup>nd</sup> Bone Spring	9626	Target	
3rd Bone Spring	10,386'	Oil/Gas	Not penetrating

#### 2. Casing Program DSEE COA

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	To	Size	(lbs)			Collapse	Burst	Tension
26"	0	12001300'	20"	94	J55	STC	0.93	1.45	6.94
17.5"	0	2800 3400'	13.375"	61	J55	LTC	1.06	1.48	3.48
12.25"	0	4500 5000	9.625"	40	J55	LTC	1.22	1.1	2.55
12.25"	4500 500	5100	9.625"	40	L80	LTC	1.29	1.57	30.0
8.75"	0	20,837'	5.5"	17	P110	LTC	1.87	2.25	3.21
				BLM Min	imum Safet	y Factor	1.125	1	1.6 Dry 1.8 Wet

SEE COA Surface/Intrmd casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.8 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y

1 Drilling Plan Smith 6.15.2016

#### COG Operating LLC - Geronimo Federal Com 11H

Is well within the designated 4 string boundary.	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
	Annalise company and
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

#### 3. Cementing Program

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	Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H20 gal/s k	500# Comp. Strength (hours)	Slurry Description
	Surf.	1400	13.5	1.75	9	12	Lead: Class C + 4% Gel + 2% CaCl2
		250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Low lament	1 <sup>st</sup> Int	1400	13.5	1.75	9	12	Lead: Class C + 4% Gel + 2% CaCl2
Las Lercon	-	250	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl2
-550	2 <sup>nd</sup> Int	400	12.7	1.98	10.6	16	Lead: Econocem HLC 65:35:6 Blend
	1 <sup>st</sup> stg	250	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl
1 annan	2 <sup>nd</sup> Int	450	13.5	1.75	9.	12	Lead: Class C + 4% Gel
Low lemans	2 <sup>nd</sup> stg	100	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl2
- Strand	5.5 Prod	700	11.9	2.5	19	48	Lead: 50:50:10 H Blend
LOUGEOR	-	2800	14.4	1_24	5.7	19	Tail: Versacem 50:50:2 Class H + 1% Salt
LOU COMENT	The DV	T/ECP fo	or the 2 <sup>nd</sup>	interme	diate ca	sing will b	e set @ 3100'.

Volumes subject to change from hole observations and/or fluid calipers.

Lab reports with the 500 psi comp strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 <sup>st</sup> Intermediate	0'	40%
2 <sup>nd</sup> Intermediate	0'	40%
Production	4600° 3286'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical - KOP then Tie In 500' Inside 9-5/8"
2	Lp need 5 -SEE	of the back above the capitan Reef

2 Drilling Plan Smith 6.15.2016

#### COG Operating LLC - Geronimo Federal Com 11H

#### 1. Geologic Formations

·	OG Operating I	LLC – Geronimo Federal Com	11H	HOBBS OCD DEC 1 9 2016		
1. Geologic Formation	ons			RECEIVED		
TVD of target	10,000' EOL	Pilot hole depth	NA	D		
MD at TD:	20,837'	Deepest expected fresh water:	185			

#### **Basin**

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				BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry
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Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y

#### COG Operating LLC – Geronimo Federal Com 11H

Is well within the designated 4 string boundary.	Y
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If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Level Level Le D 111 D and CODAD	
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Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	14
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

#### 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H <sub>2</sub> 0 gal/s k	500# Comp. Strength (hours)	Slurry Description					
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1 <sup>st</sup> Int	1400	13.5	1.75	9	12	Lead: Class C + 4% Gel + 2% CaCl2					
	250	250 14.8 1.3		6.34 8		Tail: Class C + 1% CaCl2					
2 <sup>nd</sup> Int	400	12.7	1.98	10.6	16	Lead: Econocem HLC 65:35:6 Blend					
1 <sup>st</sup> stg	250	14.8	4.8 1.34 6.34 8	8	Tail: Class C + 1% CaCl						
2 <sup>nd</sup> Int	450	13.5	1.75	9	12	Lead: Class C + 4% Gel					
2 <sup>nd</sup> stg	100	14.8	1.34	6.34	8	Tail: Class C + 1% CaCl2					
5.5 Prod	700	11.9	2.5	19	48	Lead: 50:50:10 H Blend					
	2800	14.4	1.24	5.7	19	Tail: Versacem 50:50:2 Class H + 1% Salt					

The DVT/ECP for the 2<sup>nd</sup> intermediate casing will be set @ 3100'.

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Production	4600'	25% OH in Lateral (KOP to EOL) – 40% OH in
		Vertical - KOP then Tie In 500' Inside 9-5/8"

#### COG Operating LLC – Geronimo Federal Com 11H

N A variance is schematic.	requested	for the use o	f a diverter on the	e surface	casing. See attached for
BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	-	Tested to:
17-1/2"	20"	2M	Annular	X	2000 psi
			Blind Ram		2M
			Pipe Ram		
			Double Ram		
			Other*		
			Annular	X	2000 psi
			Blind Ram		
12-1/4"	13-5/8"	2M	Pipe Ram		22.6
			Double Ram		2M
			Other*		
			Annular	X	50% testing pressure
			Blind Ram	X	
8-3/4"	13-5/8"	3M	Pipe Ram	X	22.6
			Double Ram		3M
			Other*		

#### 4. Pressure Control Equipment

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

unu	enere mies une enere maintent. See attached benemates.								
X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.								
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.								
	N Are anchors required by manufacturer?								
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.								

#### COG Operating LLC – Geronimo Federal Com 11H

#### 5. Mud Program

	Depth	Туре	Weight (ppg)	Viscosity	Water	
From	То	E Stations		March States	Loss	
0	Surf. Shoe	FW Gel	8.6-8.8	28-34	N/C	
Surf csg	13-3/8" Int shoe	Saturated Brine	10.0-10.2	28-34	N/C	
13-3/8"	9-5/8" csg pt	Fresh water	8.4-8.6	28-34	N/C	
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.4	28-34	N/C	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

#### 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.						
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated						
	logs run will be in the Completion Report and submitted to the BLM.						
Y	No Logs are planned based on well control or offset log information.						
N	Drill stem test? If yes, explain						
N	Coring? If yes, explain						

Add	litional logs planned	Interval
Ν	Resistivity	
Ν	Density	
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4700 psi at 10,000' TVD
Abnormal Temperature	NO 155 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times. Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is present

Y H2S Plan attached

#### 8. Other facets of operation

Is this a walking op? No Will be presetting casing? No

Attachments

- Directional Plan
- Anti-collision Report
- Flex Hose Variance Report
- BOP & Choke Schematics
- C102 and supporting maps
- Rig plat
- H2S schematic
- H2S contingency plan
- Interim reclamation plat

) 9	Shape *	Operator WELL_NAN	LATITUDE	LONGITUDI API	20478.Ag	SECTION TOWNSHI	NO OF CASE OF CASE OF CASE	FTG_NS_NS_CD	FTG_EW EW_CD	TVD_DEPTI COMPL_S	COUNTY	LAND T	TYPE PLUG DAT
	Point	TANDEM E BIG CIRCLE			3E+09	24 19.05	32E	330 S	330 E	3175 Active	Lea	F	<null></null>
	Point	KEWANEE (BIG CIRCLE		-103.7122	3E+09	25 19.05	32E	330 N	330 E	3172 Plugged	Lea	F	1/2/1900
	Point	ANADARKC SAUNDERS			3E+09	19 19.05	33E	660 N	1980 W	4300 Plugged	Lea	F	1/2/1900
	Point	TANDEM E SIGNAL RO			3E+09	30 19.05	33E	660 N	1980 E	3192 Active	Lea	F	<null></null>
	Point	HUDSON O SIGNAL RO			3E+09	30 19.05	33E	1980 N	2004 W	3173 Plugged	Lea	F	1/2/1900
	Point	TANDEM E SIGNAL RO			3E+09	30 19.05	33E	330 N	2310 W	3135 Active	Lea	F	<null></null>
	Point	TANDEM E SIGNAL RO			3E+09	30 19.05	33E	330 N	990 W	3126 Active	Lea	F	<null></null>
	Point	HUDSON O SIGNAL RO			3E+09	30 19.05	33E	330 N	990 E	3005 Plugged	Lea	F	1/2/1900
	Point	SINCLAIR C CARDER FE			3E+09	30 19.05	33E	1980 S	660 E	5600 Plugged	Lea	F	1/2/1900
	Point	TANDEM E BIG CIRCLE			3E+09	24 19.05	32E	660 S	1650 E	3175 Active	Lea	F	<null></null>
	Point	MACK ENEI FEDERAL 1		-103.7036	3E+09	19 19.0S	33E	330 S	2310 W	3060 Plugged	Lea	F	1/2/1900
	Point	HUDSON O SIGNAL RO		-103.7030	3E+09	30 19.05	33E	660 S	1980 E	3127 Plugged	Lea	F	1/2/1900
	Point	JOHN H TRI FEDERAL R			3E+09	31 19.05	33E	330 N	2310 E	710 Plugged	Lea	F	1/2/1900
	Point	MANZANO FEDERAL 3:			3E+09	31 19.05	33E	335 N	2223 E	3175 Plugged	Lea	F	5/7/1999
	Point	MACK ENEI COLLIER FE		-103.7012	3E+09	19 19.05	33E 33E	330 S	2310 E	3142 Plugged	Lea	F	1/2/1900
	Point	ROBINSON TONTO 001			3E+09	30 19.05	33E	990 S	2310 E	3077 Active		F	<null></null>
	Point	ROBINSON TONTO 002			3E+09	30 19.05	33E	1925 S	330 W	3095 Active	Lea	F	<null></null>
	Point	ROBINSON TONTO 002			3E+09	30 19.05	33E	1925 S	2310 E	3095 Active	Lea	F	<null></null>
	Point	ROBINSON TONTO 002			3E+09	30 19.05	33E	1650 S	1650 W	3073 Active	Lea	F	<null></null>
	Point	ROBINSON TONTO 002						990 S	990 W		Lea	F	<nuii> #########</nuii>
	Point			-103.7079	3E+09	30 19.05	33E			3129 Plugged		F	<null></null>
		ROBINSON TONTO 006			3E+09	30 19.05	33E	990 S	990 E	3098 Active	Lea	F	
	Point	ROBINSON TONTO 007			3E+09	30 19.05	33E	1650 S	990 E	3123 Active	Lea	F	<null></null>
	Point	GRACE PET HI YO SILVE			3E+09	25 19.05	32E	660 S	330 E	3304 Plugged	Lea	F	6/13/1979
	Point	ROBINSON TONTO 01(			3E+09	30 19.05	33E	1980 S	1650 W	3100 Active	Lea		<null></null>
	Point	WALLEN PF WALLEN TO			3E+09	30 19.05	33E	600 S	2310 W	570 Plugged	Lea	F	10/8/1980
	Point	WALLEN PF WALLEN CL			3E+09	25 19.0S	32E	2310 S	990 E	3140 Plugged	Lea	F	1/2/190
	Point	SABER OIL WEST TON			3E+09	24 19.05	32E	1980 S	660 W	13700 Active	Lea		<null></null>
	Point	MATADOR FEDERAL 3			3E+09	30 19.05	33E	1980 S	760 E	13712 Active	Lea	F	<null></null>
	Point	TANDEM E FEDERAL 1			3E+09	19 19.0S	33E	430 S	990 W	3157 Active	Lea	F	<null></null>
	Point	MANZANO FEDERAL 3:			3E+09	31 19.05	33E	1980 N	660 E	13653 Plugged	Lea	F	1/19/199
	Point	ROBINSON TONTO 005			3E+09	30 19.05	33E	600 S	2300 W	3086 Active	Lea	F	<null></null>
	Point	COLLIER EN FALCON FE		-103.6971	3E+09	19 19.0S	33E	330 S	990 E	3254 Plugged	Lea	F	1/2/190
	Point	ROBINSON TONTO 011			3E+09	30 19.05	33E	1700 S	990 W	3088 Active	Lea	F	<null></null>
	Point	CIMAREX E STATE HH (			3E+09	36 19.0S	32E	1980 N	660 E	9899 Active	Lea	S	<null></null>
	Point	ROBINSON TONTO 008		-103.6995	3E+09	30 19.05	33E	1790 S	1710 E	3120 Active	Lea	F	<null></null>
	Point	GRACE PET WEST TON			3E+09	25 19.0S	32E	2480 S	660 W	4950 Plugged	Lea	F	1/2/190
	Point	KAISER-FR/ FEDERAL 3			3E+09	30 19.05	33E	2310 S	1980 W	13802 Active	Lea	F	<null></null>
	Point	WALLEN PF WALLEN 19			3E+09	19 19.0S	33E	1650 S	990 W	3185 Plugged	Lea	F	1/2/190
	Point	ENDURAN( MAVERICK			3E+09	19 19.0S	33E	660 S	1980 W	13800 Active	Lea	F	<null></null>
	Point	MEWBOUF MCKAMEY			3E+09	25 19.0S	32E	2450 S	660 W	13850 Active	Lea	F	<null></null>
	Point	COG OPER/ GERONIMC			3E+09	31 19.0S	33E	660 N	660 W	10564 Active	Lea	Р	<null></null>
	Point	COG OPER/ GERONIMC		-103.709	3E+09	31 19.0S	33E	1980 N	660 W	13770 Active	Lea	F	<null></null>
	Point	COG OPER/ GERONIMC			3E+09	31 19.0S	33E	660 N	585 W	3250 Active	Lea	Р	<null></null>
	Point	GEORGE A PALADIN FI			3E+09	19 19.0S	33E	1980 N	560 W	7750 Active	Lea	F	<null></null>
	Point	COG OPER/ GERONIMC			3E+09	31 19.0S	33E	660 N	1650 W	10500 Active	Lea	Ρ	<null></null>
45	Point	DEVON ENI GERONIMO			3E+09	31 19.0S	33E	1980 N	1980 W	10295 Plugged	Lea	F	1/18/200
46	Point	SABER OIL ANDAWAY			3E+09	25 19.0S	32E	660 S	660 E	7920 Active	Lea	F	<null></null>
47	Point	CHESAPEAI FEDERAL 3:	32.62289	-103.7015	3E+09	31 19.0S	33E	400 N	2310 E	9400 Plugged	Lea	F	#######
48	Point	WAGNER C GERONIMC	32.61925	-103.709	3E+09	31 19.0S	33E	1725 N	660 W	7900 Plugged	Lea	F	8/15/201
49	Point	COG OPER/ GERONIMC	32.61855	-103.7092	3E+09	31 19.0S	33E	1980 N	585 W	3250 Active	Lea	F	<null></null>

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50 Point	COG OPER/ GERONIMC	32.61855	-103.7049	3E+09	31 19.0S	33E	1980 N	1905 W	3150 Active	Lea	F	<null></null>
51 Point	WAGNER C GERONIMC	32.62217	-103.706	3E+09	31 19.0S	33E	660 N	1575 W	3250 Plugged	Lea	F	4/22/2013
52 Point	<b>ROBINSON TONTO 012</b>	32.62525	-103.7047	3E+09	30 19.05	33E	460 S	1980 W	9450 Plugged	Lea	F	12/9/2011
53 Point	BC OPERAT STATE HH [	32.62219	-103.7133	3E+09	36 19.0S	32E	660 N	660 E	7900 Active	Lea	S	<null></null>
54 Point	BC OPERAT STATE HH [	32.61855	-103.7123	3E+09	36 19.0S	32E	1980 N	350 E	7911 TA	Lea	S	<null></null>
55 Point	WAGNER C GERONIMC	32.61573	-103.708	3E+09	31 19.0S	33E	2275 S	960 W	8200 Plugged	Lea	F	8/27/2012
56 Point	COG OPER/ PRONGHOI	32.65212	-103.7166	3E+09	24 19.0S	32E	330 N	1650 E	3500 Active	Lea	F	<null></null>
57 Point	GEORGE A PALADIN FI	32.65174	-103.7058	3E+09	19 19.0S	33E	460 N	1650 W	7780 Active	Lea	F	<null></null>
58 Point	ENDURAN( GUNSMOK	32.6512	-103.7133	3E+09	24 19.0S	32E	660 N	660 E	7852 Active	Lea	F	<null></null>
59 Point	GEORGE A PALADIN FI	32.6521	-103.7003	3E+09	19 19.0S	33E	330 N	1980 E	7858 Active	Lea	F	<null></null>
60 Point	GEORGE A PALADIN FI	32.65119	-103.709	3E+09	19 19.0S	33E	660 N	660 W	7850 Active	Lea	F	<null></null>
61 Point	GEORGE A PALADIN FI	32.64847	-103.7003	3E+09	19 19.0S	33E	1650 N	1980 E	7850 Active	Lea	F	<null></null>
62 Point	GEORGE A PALADIN FI	32.64847	-103.7047	3E+09	19 19.0S	33E	1650 N	1980 W	7850 Active	Lea	F	<null></null>
63 Point	NEARBURG DIAMONDE	32.62672	-103.7133	3E+09	25 19.0S	32E	990 S	660 E	13850 Active	Lea	F	<null></null>
64 Point	NEARBURG DIAMOND	32.64047	-103.7176	3E+09	24 19.05	32E	710 S	1980 E	13830 Active	Lea	F	<null></null>
65 Point	MEWBOUF FEDERAL 3:	32.62217	-103.6972	3E+09	31 19.0S	33E	660 N	990 E	5520 Active	Lea	F	<null></null>
66 Point	ENDURAN( PALADIN FI	32.6521	-103.7036	3E+09	19 19.0S	33E	330 N	2310 W	0	Lea	F	<null></null>
67 Point	SAMSON R MONGOOS	32.63691	-103.726	3E+09	25 19.0S	32E	661 N	661 W	0	Lea	F	<null></null>
68 Point	CIMAREX E STATE HH (	32.61507	-103.7176	3E+09	36 19.0S	32E -	1980 S	1980 E	13840 Active	Lea	S	<null></null>
69 Point	MEWBOUF NORTE 19 I	32.64867	-103.6961	3E+09	19 19.0S	33E	1650 N	710 E	13760 Active	Lea	F	<null></null>
70 Point	CIMAREX E STATE HH (	32.61782	-103.7125	3E+09	36 19.0S	32E	2310 N	330 E	0 New (Not o	: Lea	S	<null></null>
71 Point	CIMAREX E STATE HH (	32.62325	-103.7169	3E+09	36 19.0S	32E	331 N	1700 E	0 New (Not o	Lea	S	<null></null>
72 Point	BC OPERAT GAY NINET	32.61403	-103.7188	3E+09	36 19.0S	32E	1547 S	2280 E	10009 New (Not o	Lea	F	<null></null>

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# 2,000 psi BOP Schematic



# 2,000 psi BOP Schematic



## 3,000 psi BOP Schematic



Check Valve



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GATES E & S NORTH AMERICA, INC DU-TEX 134 44TH STREET CORPUS CHRISTI, TEXAS 78405 
 PHONE:
 361-887-9807

 FAX:
 361-887-0812

 EMAIL:
 crpe&s@gates.com

 WEB:
 www.gates.com

#### **10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE**

Customer :	SPECIALTY SALES, INC.	Test Date:	11/21/2013		
Customer Ref. :	49680-S	Hose Serial No.:	D-112113-8 Norma M.		
Invoice No. :	197465	Created By:			
Braduck Descriptions		10K3 050 0CK31/1610KELCE	1		
Product Description:		10K3.050.0CK31/1610KFLGE/	E		
Product Description:	3 1/16 10K FLG	10K3.050.0CK31/1610KFLGE/ End Fitting 2 :	E 3 1/16 10K FLG		
	3 1/16 10K FLG 47773-4290				

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

			1 D/m
Quality Manager :	QUALITY	Technical Supervisor :	PRODUCTION
Date :		Date :	(11/22/2043)
Signature :	Attal "	Signature :	NR XIII
	0		Form PTC - 01 Rev.0 2











NMAC by using a Closed Loop System."

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### Internal Hydrostatic Test Certificate

Customer	Odessa	Hose Assembly Type	Choke & Kill	
MWH Sales Representative	Charles Ash	Certification	API 7K/FSL LEVEL2	
Date Assembled	11/11/2016	Hose Grade	Mud	
Location Assembled	OKC	Hose Working Pressure	100000	
Sales Order #	308747	Hose Lot # and Date Code	12354-09/15	
Customer Purchase Order #	345144	Hose I.D. (Inches)	3.5"	
Assembly Serial # (Pick Ticket #)	371501	Hose O.D. (Inches)	5.87"	
Hose Assembly Length	35 Feet	Armar (yes/no)	No	
End A		End I	B	
· 清· 作。第二章 考 清·	1	。 【注册》并:书,书:书》:书:书:书:书:		
	1 5 M 1 1 1 1 1 1 1			
Ferrule (Part and Revision #)	RF3.5X5750	Ferrule (Part and Revision #)	RF3.5X5750	
Ferrule (Heat #)	41632	Ferrule (Heat #)	41632	
4071G ·	N W W W TO STOR		HE WETSY MIN	
		A TO MY LITING THE THE TO WE WE THE	h the second second	
Nut (Port #)		Nut (Port #)		
Nut (Heat#)		NUt (Heat #)		
Dies Used	5.80"	Dies Used	5.80"	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water	
Test Pressure Hold Time (minutes)	24 1/2	temperat		

MHSI-008 Rev. 0.0 Proprietary

	Aut	
		west Hose ecialty, Inc.
Customer: Odessa		Customer P.O.# 345144
Sales Order # 308747		Date Assembled: 11/11/2016
Hose Assembly Type:	Choke & Kill	Rig #
Assembly Serial #	371501	Hose Lot # and Date Code 12354-09/15
Hose Working Pressure (psi)	100000	Test Pressure (psi) 15000
Hose Assembly Description:	ČK5	6-SS-10K-6410K-6410K-35:00 FT-W/LIFTERS
Ve hereby certify that the abov o the requirements of the purc	e material supplied hase order and curr	for the referenced purchase order to be true according ent industry standards.
upplier: Aidwest Hose & Specialty, Inc.		
312 S I-35 Service Rd Oklahoma City, OK 73129		
klahoma City, OK 73129	3v	Date 11/11/2016

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MHSI-009 Rev.0.0 Proprietary



pproved By d Hes Ash

Run Time: 02:54 PM

#### DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Run Date:

06/30/2016 Page 1 of 1

#### LLD ACREAGE REPORT

Admin State: NM Geo State: NM

#### MTR: 23 0190S 0330E

Section:	030						
			NE NW SW SE				
			NNSS NNSS NNSS NNSS		Dup	Sub	
Sur Type	Sur No	LId Suff	EWWE EWWE EWWE EWWE	Sur Note	Flg	Surf	Acreage
A			XXXX XX XX XXXX				480.000
· L	1		X				40.940
L	2		X				40.810
L	3		XX				40.690
L	4		X				40.560
				Section	030 Tot	al:	643.000

Section:	031				
			NE NW SW SE		
			NNSS NNSS NNSS NNSS	Dup	Sub
Sur Type	Sur No	LId Suff	EWWE EWWE EWWE	Sur Note Flg	Surf Acreage
A			XXXX XX XX XXXX		480.000
L	1		X		40.480
L	2		X		40.450
L	3		XX		40.410
L	4		X		40.380
				Section 031 Total	641.720

1,284.720

Grand Total Excluding Survey Notes C/D/R	1,284.720
and Sub Surf = Y:	

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

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## New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 19

Township: 19S

Range: 33E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

wa				State Engir Depth to	
(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	0 110 110 10 1	quarters are 1=NW 2 quarters are smallest	,	33 UTM in meters)	(In feet)
POD Number	POD Sub- Code basin Cou	Q Q Q unty 64 16 4 Sec Tv	vs Rng X		Depth Water Water Column
CP 00883	LE	E 4 3 30 19	S 33E 621517	3610545* 🧼 3305 Average Depth to Water:	
				Minimum Depth: Maximum Depth:	
Record Count: 1					
PLSS Search:					

Section(s): 30

5

Township: 19S

Range: 33E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

WATER COLUMN/ AVERAGE DEPTH TO WATER



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 31

Township: 19S

Range: 33E

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## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(quar						IE 3=SW largest)	'	3 UTM in meters)		(In feet)	
POD Number	POD Sub- Code basin C	ountv	2028	Q 16	2.378	Sec	Tws	Rna	x	Y	14. 汽车等款 的复数形式	Depth Vater C	
CP 00658	945 KUUDAINI KUUDAINI JULIU KUUDA ARTAA M	LE					19S		628857	3611125* 🌍	100		
CP 00805		LE		3	1	18	19S	33E	621057	3614563* 🌍	450		
CP 00809		LE		2	1	05	19S	33E	623048	3618206* 🌍	300		
CP 00810		LE		3	3	08	19S	33E	622675	3615385* 🌍	110		
CP 00883		LE		4	3	30	19S	33E	621517	3610545* 🌍	3305		
L 07023	L	LE	2	3	3	32	19S	33E	622840	3609047* 🌑	262	185	77
										Average Depth to	Water:	185 fe	et
										Minimum	Depth:	185 fe	et
										Maximum	Depth:	185 fe	et

#### Record Count: 6

PLSS Search:

Township: 19S

Range: 33E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.