¢				Case No.	153	94
				Date: 10/1	5/20	015
				Exhibit _2	/	
Form 3160-3 (March 2012) UNITED STATES					APPRO to 1004-0 October 31	1137
DEPARTMENT OF THE I BUREAU OF LAND MAN				5. Lease Serial No. NM 77090		
APPLICATION FOR PERMIT TO	Drill of	REENTER		6. If Indian, Allotee	or Trib	e Name
la. Type of work: DRILL REENTE	7 If Unit or CA Agre	ement, l	Name and No.			
1b. Type of Well: 🗹 Oil Well 🔲 Gas Well 💭 Other	√ Sir	ngle Zone 🔲 Multip	le Zone	8. Lease Name and Romeo Federal Co		
2. Name of Operator GMT Exploration Company LLC			·	9 API Well No.		
3a. Address 1560 Broadway Suite 2000 Denver, CO 80202	10 Field and Pool, or Red Hills North	Explorat	ory			
 Location of Well (Report Jocation clearly and in accordance with cat At surface 400' FNL & 660' FWL, Lat. 32.123309, Long. At proposed prod. zone 330' FSL & 660 FWL, Lat. 32.1148' 	11. Sec., T. R. M. or Blk.and Survey or Arca Sec 22, T24S R34E					
Distance in miles and direction from nearest town or post office* ~15 miles northwest of Jal, NM	1, 1019. 10			12. County or Parish Lea	Ì	13 State NM
 15 Distance from proposed* 400' location to nearest property or lease line, fl (Also to nearest drig, unit line, if any) 	16 No. of acres in lease 17, Spaci 160 160				well	
 18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 	19. Proposet 12,297' TV 16,269' MI	'D	20 BLM NMB00	/BIA Bend No.' on file 10886		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3534' GL		nate date work will star	t*	23. Estimated duration 45 days		
	24. Attac	hments		<u> </u>		
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be at	tached to th	is fonn:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office) 		Item 20 above). 5. Operator certific	ation	ons unless covered by an	_	
25. Signalure		(Printed Typed) sa Walters			Date	1/20/14
File Petrotech		<u>.</u>				••••
Approved by (Signature)	Name (Printed Typed)				Date	
Title	Office				4	· · · · · · · · · · · · · · · · · · ·
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conducts of approval, if any, are attached.	s legalor equi	lable title to those righ	is in the su	pject lease which would e	mtitle the	e applicant to

(Continued on page 2)

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*(Instructions on page 2)

DISTRICT I 1625 N. French Dr., Phone (575) 363-6161 F	Hobbs, NM 562 'ax (575) 593-07	40 720	1	Form C-1 State of New Mexico Energy, Minerals and Natural Resources Department					ust 1, 2011
DISTRICT II 811 S. First St., A Phone (575) 748-1283 F	rtesia, NM 8 ax: (575) 748-9	16210 720	OIT	CON		ION DIVIS		bmit one copy to a Die	appropriate trict Office
DISTRICT III 1000 Rio Brazos R Phone (505) 334-8178 2	d., Aztec, Na Fax: (505) 334-6	8 87410 170	OIL	122	20 South St.	Francis Dr. Mexico 87505	101		
DISTRICT IV 1220 S. SL Francis D Phone (505) 478-3430 F	r., Santa Fe, P Paz (595) 476-3	NH 87505						AMENDER	PFDAPT
			WELL LO	CATION	AND ACRE	AGE DEDICATI	ON PLAT		A BEORI
	Number		960	Pool Code 134	34 Red Hills; Bone Spring, North				th
Property (Code		ROMEO FEDERAL COM						
OGRID N	IGRID No. Operator Name I				Eleva	tion			
26051	1		G	MT EXP	LORATION C	COMPANY LLC		353	4
c	x	,			Surface Loc				·····
UL or lot No.	Section	Township	Range	Lot !dn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
D	22	24 S	34 E		400	NORTH	660	WEST	LEA
	r	<u>, </u>				erent From Sur			<u> </u>
UL or lot No. M	Section 22	Township 24 S	Range 34 E	Lot Idn	Feet from the 330	SOUTH/South line	Feel from the 660	East/West line WFST	County LEA
Dedicated Acre		I	nsclidation (Code Or	der No.	<u> </u>	000	WEST	
	_								-
NO ALLO	OWABLE W					UNTIL ALL INTE APPROVED BY		EEN CONSOLID.	ATED
5532.3	5532.4			N: 441340.3 E . 612119 3	1	N · 44130 E . 81476		OR CERTIFICAT	
E. 6394772		SUPEACE	LOCATION	(NADB)	}	(NADS:) I hereby co	rlify that the inform in is true and comp	nation
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3534.7	3530.4	NUSPEE N	440924.5 810139.5	ł			land including	EAsed mineral interes the proposed boliam a right to drill this	hole well at
	j	(NAD-	83)	Ì	1		this location provides the second	ersuant to a contract a mineral or working my pooling agreement	with an interest,
	l			ļ	ļ		compulsory poo the division	ling order heretafore	entered by
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444 F	<u>В.Н.</u> О	I Long - W	103"27'51.26" 436378.9 810173.8	1	1	N.: 435		1000' 1500 CALE: 1" = 1000'	2000
E.; 609517.0 (NAD63)	055	I E (NAD-				E.: 814 [NAD		O Num.: 30453	{]]

<u>GMT Exploration Company LLC</u> Romeo Federal Com #1H 400' FNL 660' FWL Section 22, T24S, R34E Lea County, New Mexico

DRILLING PROGRAM

Drilling operations for this well will be conducted in accordance with the Onshore Oil and Gas Order #1, 2, 6 as provided for in 43 CFR 3164.1. This includes the well control equipment and its testing, the mud system and associated equipment, and the casing and cementing.

1. Estimated tops of important geologic markers (Measured Depth):

Ground Level	3534'
Fresh Water	600'
Rustler	1,160'
Salt Top	1,215'
Salt Base	3,015'
Lamar Limestone	3,030
Delaware Mountain Group	5,340
Delaware Bell Canyon	5,365'
Delaware Cherry Canyon	6,580'
Delaware Brushy Canyon	7,780'
Lower Brushy Canyon Marker	8,955
Bone Spring	9,125
Avalon Shale Top	9,175'
Avalon Carbonate	9,420
1 st Bone Spring Sand	10,160'
1 st Bone Spring Carbonate	10,360'
2 nd Bone Spring Sand	10,735'
2 nd Bone Spring Carbonate	11,200'
3 rd Bone Spring Sand	11,800'
Actual Target	12,297'
Wolfcamp	12,350'

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2. Estimated depths of anticipated water, oil, gas or minerals:

Mineral	Formation	Depth (Measured Depth)
Water		600'
Natural Gas/Oil	Lower Brushy Canyon Marker	8,955'
Natural Gas/Oil	Avalon Shale Top	9,175'
Natural Gas/Oil	1 st Bone Spring Sand	10,160'
Natural Gas/Oil	2 nd Bone Spring Sand	10,735'
Natural Gas/Oil	3 rd Bone Spring Sand	11,800'
Actual Target		12,297'

Fresh water: Fresh water aquifers will be protected with surface casing set at 1,865'. All potentially productive usable water, hydrocarbons, and other mineral zones will be protected with casing and cement.

3. Minimum specifications for pressure control:

The BOP and related equipment will meet or exceed the requirements of a 5M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematic.

A. Casinghead: 14 3/4" x 13 3/8" x 5000 psi WP

Tubinghead: 7-1/16" - 5000 psi WP x 4 1/16" - 10,000 psi WP

- B. Minimum Specified Pressure Control Equipment
 - Annular preventer

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- One Pipe ram, One blind ram

- Drilling spool, or blowout preventer with 2 side outlets. Choke side will be a 3-inch minimum diameter, kill will shall be at least 2-inch diameter

- 3 inch diameter choke line
- 2 3 inch choke line valves
- 2 inch Kill line
- 2 chokes with 1 remotely controlled from rig floor (see Figure 2)
- 2 2 inch kill line valves and a check valve
- Upper kelly cock valve with handle available

- When the expected pressures approach working pressure of the system, 1 remote kill line tested to stack pressure (which shall run to the outer edge of the substructure and be unobstructed)

- Lower kelly cock valve with handle available
- Safety valve(s) and subs to fit all drill string connections in use
- Inside BOP or float sub available
- Pressure gauge on choke manifold
- All BOPE connections subjected to well pressure shall be flanged, welded, or clamped
- Fill-up line above the uppermost preventer.
- C. Auxiliary Equipment
 - Audio and visual mud monitoring equipment shall be placed to detect volume changes indicating loss or gain of circulating fluid volume. (OOS 1, III.C.2)
 - Gas Buster will be used below 6,000'.

- Upper and lower kelly cocks with handles, safety valve and subs to fit all drill string connections and pressure gauge on choke manifold.

- D. BOP Testing procedures:
 - The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum:
 - a. when initially installed
 - b. whenever any seal subject to test pressure is broken
 - c. following related repairs
 - d. at 30 day intervals
 - e. Checked daily as to mechanical operating conditions.
 - The ram type preventer(s) shall be tested to the approved BOP stack working
 pressure when a test plug is used. If a test plug is not used, the ram type
 preventer(s) shall be tested to 70% of the minimum internal yield pressure of
 the casing.
 - The annular type preventer(s) shall be tested to 50% of the approved BOP stack working pressure. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer.
 - A Sundry Notice (Form 3160-5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test.
 - If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure.

 GMT has engaged Sierra Engineering to perform the BOP tests. We will invite the BLM to witness them.

The BOP Configuration, Choke manifold layout, and Accumulator system, will be in compliance with Onshore Order 2 for a 5000 psi system.

A remote accumulator will be used. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM supervised BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

4. Supplementary Information:

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Any required operational changes in the casing and cement design specified below will be submitted to the BLM Authorized Officer for approval **prior** to running casing and cementing.

A: Proposed Casing Program:

PURPOSE	INTERVAL	HOLE SIZE	CASING SIZE	WT/FT (lbs/ft)	GRADE	COND	THREAD & Coupling
CONDUCTOR	0-80'	26"	20"	94	H-40	NEW	ST&C
SURFACE	0-1,865'	17 1/2"	13 3/8"	54.5	J-55	NEW	ST&C
INTERMEDIATE	0 - 5,400	12 1/4"	8 5/8"	36	J-55	NEW	LT&C
PRODUCTION	0-16,269'	7 7/8"	5 1/2"	20	P-110	NEW	BT&C

Minimum design safety factors: Burst-1.0, Collapse-1.125, Axial -1.6.

Centralizer Program:

- Surface: 3 welded bow spring centralizers, one on each of the bottom 3 joints, plus one on the shoe joint (4 minimum)
 - No Cement baskets will be run

Production: - 1 welded bow spring centralizer on a stop ring 6' above float shoe

- 1 centralizer every other joint to the top of the tail cement
- 1 centralizer every 4 joints to 500' below the top of the lead cement

- The actual number and placement of centralizers will be determined from hole deviation and potential production zones. Centralizers will be run for maximum practical standoff and through all potential productive zones.

 All casing strings below the conductor shall be tested, prior to drilling out the casing shoe, to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the internal yield pressure of the casing. If pressure declines more than 10 percent in 30 minutes, corrective action will be taken.

No freshly hard banded pipe will be rotated in the surface casing

- GMT will not employ an air-drill rig for the surface casing. The casing shoe will be tested by drilling 5'-10' out from under the shoe and pressure testing to the maximum expected mud weight equivalent as shown in the mud program listed in the drilling plan.

B. Proposed Cementing Program:

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Surface: 13 3/8" 0" – 1,865" 150 % over theoretical hole volume Cement surface with 400 sacks of 356/5/poz Class "C" Tail. Criculate to surface with 177 sacks. Lead: Surry Density: 12.8 lb/gal Yield: 2.00 13/sack Lead: Surry Density: 12.8 lb/gal Yield: 2.00 13/sack Mix Fluid: 10.643 gal/sk Sack Reference: 8910 d Blend Blend: 186.59 lb/13 Blend: 197.21 bl/13 Fresh Water 10.446 gal/sk Sack Reference: 8910 d Blend Blend: 186.59 lb/13 Blend: 197.21 bl/13 Fresh Water 10.426 gal/sk Sack Reference: 8910 d Blend Blend: 197.27 lb/13 Fresh Water: 63.66 gal/sk Sack Reference: 8910 d Blend Blend: 197.27 lb/13 Fresh Water: 63.66 gal/sk Sack Reference: 8910 d Blend Blend: 197.27 lb/13 Fresh Water: 63.66 gal/sk Sack Reference: 8910 d Blend Blend: 197.27 lb/13 Fresh Water: 63.66 gal/sk Sack Reference: 8910 d Blend: 197.27 lb/13 Fresh Water: 63.66 gal/sk Sack Reference: 8910 d Blend: 197.27 lb/13 Fresh Water: 63.66 gal/sk Sack Reference: 8910 d Blend: 198.67 Cacelera for 2% BWOC Accelerator 2% BWOC Blext Advecter 10.440 gal/sk Sack Reference: 8910 d Blend Blend: 196.59/13 Fresh Water: 10.440 gal/sk Sack Reference: 8910 d Blend Blend: 196.59/13 Fresh Water: 10.440 gal/sk S% SWOW Sati 10.681 7 gal/sk Sack Reference: 8910 d Blend Blend: 196.59/13 Fresh Water: 10.440 gal/sk S% BWOE Blend Blend: 186.59/13 Fresh Water: 10.440 gal/sk S% SWOW Sati 10.681 7 gal/sk Sack Reference: 8910 d Blend Blend: 186.59/13 Fresh Water: 10.440 gal/sk S% BWOE Blend Blend: 10.617 gal/sk S% BWOE Blend Blend: 10.647 gal/sk S% BWOE Blend	Casing Size	Interval	% Excess	Cement Blend
Intermediate: 8 5/8" 0" - 5,400" 25 % over theoretical hole volume over caliper volume Cement intermediate with 2,080 satk Sacks of Service with 22 8 Byd Blend Blend: 186,591 Byd Blend Intermediate: 8 5/8" 0" - 5,400" 25 % over theoretical hole volume over caliper volume Cement intermediate with 2,080 satks Sacks of Selver over caliper volume 0" - 5,400" 25 % over theoretical hole volume over caliper volume Cement intermediate with 2,080 sacks of 3505/spoz Class "C" Lead and 350 sacks Class "C" Lead and 350 sacks Class "C" Lead and 350 sacks Class "C" Signal by Signal	Surface: 13 3/8"	0' - 1,865'		of 35/65/poz Class "C" Lead and 350 sacks Class "C" Tail. Circulate to surface with 177
Intermediate: 8 5/8" 0' - 5,400' 25 % over theoretical hole volume -or- Cement intermediate with 2,080 sacks of 35/65/poz Class "C" Lead and 350 sacks Class "C" Lead: Slurry Density: 12.8 lb/gal Yield: 2.0 ft3/sk Mix Fluid: 10.617 gal/sk Sack Reference: 89lb of Blend Blend: 186.59/ft3 Fresh Water: 10.440 gal/sk S% BWOW Salt 6% BWOB Extender .5% BWOB Fluid Loss 5 lb/sk LCM/extender .4% BWOB Retarder .2% BWOB Dispersant				Slurry Density: 12.8 lb/gal Yield: 2.00 ft3/sack Mix Fluid: 10.643 gal/sk Sack Reference: 89lb of Blend Blend: 186.59 lb/ft3 Fresh Water 10.486 gal/sk 5% BWOW Salt 6% BWOB Extender .3% BWOB Fluid Loss .2% BWOB Dispersant 5 lb/sk LCM/extender
hole volume -or- 10% over caliper volume Lead and 350 sacks Class "C" Tail. Circulate to surface with 281 sacks. Lead: Slurry Density: 12.8 lb/gal Yield: 2.0 ft3/sk Mix Fluid: 10.617 gal/sk Sack Reference: 89lb of Blend Blend: 186.59/ft3 Fresh Water: 10.440 gal/sk 5% BWOW Salt 6% BWOB Extender .5% BWOB Fluid Loss 5 lb/sk LCM/extender .4% BWOB Retarder .2% BWOB Dispersant				Slurry Density: 14.8 lb/gal Yield: 1.34ft3/sk Mix Fluid: 6.336 gal/sk Sack Reference: 94lb of Blend Blend: 197.27 lb/ft3 Fresh Water: 6.366 gal/sk 1% BWOC Accelerator
Siurry Density: 12.8 lb/gal Yield: 2.0 ft3/sk Mix Fluid: 10.617 gal/sk Sack Reference: 89lb of Blend Blend: 186.59/ft3 Fresh Water: 10.440 gal/sk 5% BWOW Salt 6% BWOB Extender .5% BWOB Fluid Loss 5 lb/sk LCM/extender .4% BWOB Retarder .2% BWOB Dispersant	Intermediate: 8 5/8"	0' – 5,400'	hole volume -or- 10%	sacks of 35/65/poz Class "C" Lead and 350 sacks Class "C" Tail. Circulate to surface with
Tail:				Slurry Density: 12.8 lb/gal Yield: 2.0 ft3/sk Mix Fluid: 10.617 gal/sk Sack Reference: 89lb of Blend Blend: 186.59/ft3 Fresh Water: 10.440 gal/sk 5% BWOW Salt 6% BWOB Extender .5% BWOB Extender .5% BWOB Fluid Loss 5 lb/sk LCM/extender .4% BWOB Retarder .2% BWOB Dispersant .02 gal/sk Antifoam

			Slurry Density: 14.8 lb/gal Yield: 1.33 ft3/sk Mix Fluid: 6.375 gal/sk Sack Reference: 94lb of Blend Blend Density: 197.27 lb/ft3 Fresh Water: 6.344 gal/sk .35% BWOC Retarder .2% BWOC Antifoam .02 gal/sk Retarder
Production: 5 1/2"	0- 16,269'	25 % over theoretical hole volume -or- 10% over caliper volume	Cement from TMD to an interlock of at least 1500' into annular space separating 5 1/2" casing(production) and 8 5/8" casing(intermediate) with 440 sacks of 50/50/poz Class "H"Lead and 880 sacks of Trinity Lite. Lead: Slurry Density: 11.8 lb/gal Yield: 2.55 ft3/sk Mix Fluid: 15.134 gal/sk Sack Reference: 86lb of Blend Blend: 182.12 lb/ft3 Fresh Water: 14.910 gal/sk 10%BWOB Extender 5% BWOW Salt .1% BWOB Viscosifier .2% BWOB Antifoam .1% BWOB Retarder Tail: Slurry Density: 13 lb/gal Yield: 1.42 ft3/sk Mix Fluid: 7.289 gal/sk Sack Reference: 75lb of Blend Blend: 176.05 lb/ft3 Fresh Water: 7.289 gal/sk 1.5% BWOC Expanding ce
The curface of		ad bask to ourfood. In the	.25% Retarder 1% Fluid Loss .2% BWOC Antifoam

The **surface casing** shall be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface. Pea Gravel or other material shall not be used to fill up around the surface casing in the event cement fall back occurs.

A Sundry Notice (Form 3160-5), along with a copy of the service company's materials ticket and job log, shall be submitted to the local BLM office within 5 working days following the running and cementing

5. Mud System:

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The following is meant as a guide only. Actual mud weights will be determined by hole conditions. Sufficient quantities of mud materials will be maintained or readily accessible for assuring well control.

Interval	Mud Weight PPG	Viscosity SEC	Fluid Loss CC	PH	Remarks
0' 1,865''	8.4 - 8.8	28 36	Natural	8.5-9.5	Fresh Water
1,865' – 5,400'	8.4 - 8.8	26 - 32	No Control	9.0-10.5	Salt Water/Brine
5,400' –16,269'	9.0 – 11.0	34 – 45	8 – 12	9.0-10.5	LSND/weight nondispersed

Mud tests will be performed at a minimum interval of every 24 hours after mudding up to determine: density, viscosity, filtration, and pH for formation compatibility.

GMT will use fresh water from surface casing total depth and then switch to a brine-based solution of salinity sufficient to be saturated for preventing washout (10#/gal) (\geq 185,000 ppm).

Sufficient quantities of mud materials shall be maintained at the well site, at all times, for the purpose of assuring well control.

Drilling of the surface casing will occur with fresh water.

If a temporary surface pipeline is used to transport drilling water, the pipeline shall be laid and removed when the ground surface is dry so as to minimize surface disturbance. No blading or other alteration of the ground surface shall be allowed.

6. Testing, Logging, and Coring Program

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Cores-DST's:None anticipated at this time.Surveys:Inclination only surveys while drilling, directional surveyMud Logger:Morco Geological ServicesLeaving intermediate to TDLogging:Triple Combo
CMRIntermediate to TD
Intermediate to TD

Stimulation Program:

Evaluate open hole logs to determine interval to perforate. Perforate selected intervals of interest after addressing spacing and commingling considerations. A completion program will be based upon evaluation of the logs and formation parameters.

7. Abnormal Conditions/Expected BHP

a. GMT does not expect any temperatures in excess of 200°F or pressures exceeding the normal gradient.

8. Additional Information

- a. Anticipated starting date based upon approval will be 8/1/2015.
- b. Duration of the drilling operations will be approximately 45 days.
- c. This well is a directional well per attached directional plan from Pathfinder. Please refer to Exhibit 2.
- d. Rat and mouse holes (or any subgrade excavations for drilling operations) shall be filled and compacted, with appropriate native materials, immediately upon release of the

drilling rig from the location.

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- e. Any permanent plug placed in the well during drilling and/or completion operations must have **prior** approval of the Authorized Officer.
- f. As provided in NTL-4A, gas produced from this well may not be vented or flared beyond an initial test period, 30 days or 50 MMCF, whichever first occurs, without approval of the Authorized Officer.
- g. GMT shall report all fresh water flows encountered while drilling to the Authorized Officers representative (Petroleum Engineer) prior to the running the next string of casing. The reported information shall include a) well name, number and location, b) the date the water flow was encountered, c) depth at which the water flow was encountered and d) estimated water flow rate into the well bore. The operator shall file a Form 3160-5 (Subsequent Report Sundry Notice) of this same information within 30 days of releasing the drilling rig.
- h. Anticipated bottom hole temperature is 200°F, and its anticipated pressure is ~4873psi.

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GMT Exploration Company, LLC will promptly plug and abandon each newly completed, re-completed or producing well which is not capable of producing in paying quantities. No well may be temporarily abandoned for more than 30 days without prior approval of the Authorized Officer. When justified by the Operator, the Authorized Officer may authorize additional delays, no one of which may exceed an additional 12 months. Upon removal of drilling or producing equipment from the site of a well which is to be permanently abandoned, the surface of the lands disturbed shall be reclaimed in accordance with a plan first approved or prescribed by the Authorized Officer or per the reclamation conditions of approval stated herein.

50 Plan Report

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5D Plan Report

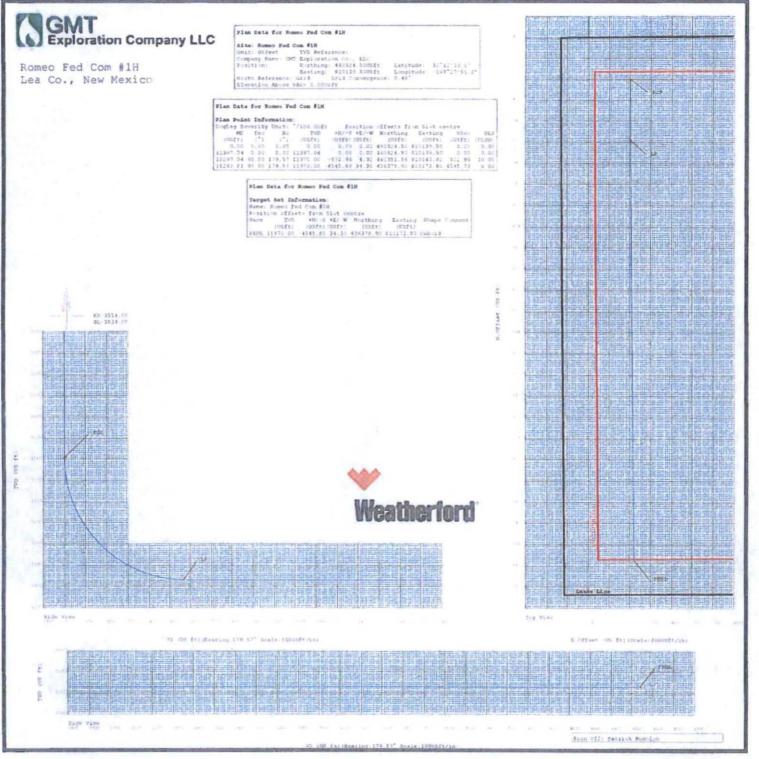
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GMT Exploration Co., LLC

Field Name:Lea Co., New Mexico (NAD 83 NME)Site Name:Romeo Fed Com #1HWell Name:Romeo Fed Com #1HPlan:P1:V1

06 August 2014





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5D Plan Report

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		Romeo Fed	Com #1	H						
	Map Units : US ft		Com	pany Name :	GMT Explorat	ion Co., LLC				
Field Name	Vertical Reference Datum (VRD) : Mean Sea Level									
Les Co., New	Projected Coordinate System : NAD83 / New Mexico East (ftUS)									
exico (NAD 83 NME)	Comment :									
	Units : US ft	North Reference : (Grid	Convergence	e Angle : 0.46					
	E AVENER A	Northing : 440924.5	0 US ft	Latitude : 3	2° 12' 33.09"	1021215				
Site Name	Position	Easting : 810139.50	US ft	Longitude :	-103° 27' 51.24	4"				
omeo Fed Com #1H	Elevation above Me Comment :	an Sea Level:3534.00	US ft							
Contraction of the		Position (Offs	ets relative to	Site Centre)	N. S. Sarr				
	+N / -S : 0.00 US ft	Northing :440924.5	0 US ft	Latitude : 3	2°12'33.09"					
Slot Name	+E / -W : 0.00 US ft Easting :810139.50 US ft Longitude : -103°27'51.24"									
omeo Fed Com	Slot TVD Reference : Ground Elevation									
#1H	Elevation above Mean Sea Level : 3534.00 US ft									
A Antonia I	Comment :									
A REAL PROPERTY.	Type : Main well		UWI:		Plan: P1:V1					
Well Name		ushing: 20.00 US ft ea Level: 3554.00 US	Comment :							
omeo Fed Com	Closure Distance :	4545.73 US ft	Closure Azin	nuth: 179.56	58°					
#1H	Vertical Section (P	osition of Origin Relat	ive to Slot)							
		+N / -S: 0.00 US ft	+E/-W:0.	.00 US ft	Az :179.57°					
	Magnetic Paramete	ers								
		Field Strength : 48255.5nT	Dec: 7.27°		Dip: 60.10°	Date : 01/Dec/2014				

Target Set

Name : Romeo Fed Com #1H Number of Targets : 1

Comment :

Target	Position (Relative to Slot centre)								
Name:	+N / -S : -4545.60US ft	Northing : 436378.90 US ft	Latitude : 32°11'48.11"						
PBHL	+E / -W : 34.30 US ft	Easting : 810173.80US ft	Longitude : -103°27'51.26"						
Shape:	TVD (Kelly Bushing) : 11970.	00 US ft							
Cuboid	Orientation Azimuth : 0.00°	Inclination : 0.00°							

Well path created using minimum curvature

5D Plan Report

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MD	Inc	Ar	TVD	N.Offset	E.Offset	DLS		B.Rate		T.Page	Comm
(US.ft)	14	(6)	(USA)	(05(1))	(U.S.(ff))	(9/100.03 (9)		(7/100 US) (9)	(*/106 US R)	(9)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	Could bear to a
1397.04	0.00	0.00	11397.04	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	KO
2297.04	90.00	179.57	11970.00	-572.94	4.32	10.00	572.96	10.00	0.00	179.57	LP
6269.81	90.00	179.57	11970.00	-4545.60	34.30	0.00	4545.73	0.00	0.00	0.00	PBH
terpolated	Points (Re	lative to Slo	t centre, TV	D relative to	Kelly Bushi	ng)	C.C.C.A			-	Martin State
(US (P)		A2 (*)	TVD (US ft)	N.Offset (US it)		VS (US N)	01.5 (*/40.0.0.5 (t)	Northing (US ft)	Easting (US:R)	Til Face (4)	Comm
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
2900.00 3000.00	0.00	0.00	2900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50 810139.50	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	

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Interpolated	Points (Re	ative to Slo	t centre, TVI	o relative to	Kelly Bush	ing)	THE AVE	Contraction of		and the	Stat and
M0 (US (t))		R)	1VD (0.5 ft)	N.Offset (US/R)	E.Offset (US (t)	(US (t))	(f) 100 US (f)	Northing (US (t)	Easting (US A)	Triface (*)	Comment
5000.00	0.00	0.00	5000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5500.00	0.00	0.00	5600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	-0.00	0.00	440924.50 440924.50	810139.50 810139.50	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	440924.50	810139.50	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
6700.00	0.00	0.00	6700.00	0.00	00.3	-0.00	0.00	440924.50	810139.50	0.00	
6800.00	0.00	0.00	6800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7000.00	0.00	0.00	7000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7100.00	0.00	0.00	7100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7200.00	0.00	0.00	7200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7300.00	0.00	0.00	7300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7400.00	0.00	0.00	7400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7500.00	0.00	0.00	7500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7600.00	0.00	0.00	7600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7709.00	0.00	0.00	7700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7800.00	0.00	0.00	7800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
7900.00	0.00	0.00	7900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8000.00	0.00	0.00	8000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8100.00	0.00	0.00	8100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8200.00	0.00	0.00	8200.00	0.00	0.00	-0.00	0.00	440924.50	B10139.50	0.00	
8300.00	0.00	0.00	8300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8400.00	0.00	0.00	B400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8500.00	0.00	0.00	8500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8600.00	0.00	0.00	8600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8700.00	0.00	0.00	8700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
8800.00	0.00	0.00	8900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50 810139.50	0.00	
9000.00	0.00	0.00	9000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9100.00	0.00	0.00	9100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9200.00	0.00	0.00	9200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9300.00	0.00	0.00	9300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9400.00	0.00	0.00	9400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9500.00	0.00	0.00	9500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9600.00	0.00	0.00	9600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9700.00	0.00	0.00	9700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9800.00	0.00	0.00	9800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
9900.00	0.00	0.00	9900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10000.00	0.00	0.00	10000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10100.00	0.00	0.00	10100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10200.00	0.00	0.00	10200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10300.00	0.00	0.00	10300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10400.00	0.00	0.00	10400.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10500.00	0.00	0.00	10500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10600.00	0.00	0.00	10600.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10700.00	0.00	0.00	10700.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	

Weatherford International Limited

5D Plan Report

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nterpolate		lative to Slo	it centre, TVI	D relative to	Kelly Bushing)			the second and	14 1 2 M		
(US ft)	Ane (4)	(*)	TVO (LIS ft)	N.Offset (US ft)	E Offset (US ft)	VS (US ft)	0.5 (*/100 US (t)	Northing (US/R)	Easting (USIR)	T.F3cc (*)	Commen
10800.00	0.00	0.00	10800.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
10900.00	0.00	0.00	10900.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
11000.00	0.00	0.00	11000.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
11100.00	0.00	0.00	11100.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
11200.00	0.00	0.00	11200.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
11300.00	0.00	0.00	11300.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	
11397.04	0.00	0.00	11397.04	0.00	0.00	-0.00	0.00	440924.50	810139.50	0.00	KOP
11400.00	0.30	179.57	11400.00	-0.01	0.00	0.01	10.00	440924.49	810139.50	179.57	
11500.00	10.30	179.57	11499.45	-9.23	0.07	9.23	10.00	440915.27	810139.57	0.00	
11600.00	20.30	179.57	11595.78	-35.57	0.27	35.57	10.00	440888.93	810139.77	0.00	
11700.00	30.30	179.57	11686.08	-78.25	0.59	78.25	10.00	440845.25	810140.09	0.00	
11800.00	40.30	179.57	11767.59	-135.95	1.03	135.95	10.00	440788.55	810140.53	0.00	
11900.00	50.30	179.57	11837.85	-206.93	1.55	206.94	10.00	440717.57	810141.06	0.00	
12000.00	60.30	179.57	11894.71	-289.04	2.18	289.05	10.00	440635.46	810141.68	0.00	
12100.00	70.30	179.57	11935.45	-379.77	2.87	379.78	10.00	440544.73	810142.37	0.00	
12200.00	80.30	179.57	11961.80	-476.37	3.59	476.38	10.00	440448.13	810143.09	0.00	
12297.04	90.00	179.57	11970.00	-572.94	4.32	572.96	10.00	440351.56	810143.82	0.00	LP
12300.00	90.00	179.57	11970.00	-575.90	4.35	575.92	0.00	440348.60	810143.85	0.00	
12400.00	90.00	179.57	11970.00	-675.90	5.10	675.92	0.00	440248.60	810144.60	0.00	
12500.00	90.00	179.57	11970.00	-775.89	5.85	775.92	0.00	440148.61	810145.35	0.00	
12600.00	90.00	179.57	11970.00	-875.89	6.61	875.92	0.00	440048.61	810145.11	0.00	
12700.00	90.00	179.57	11970.00	-975.89	7.36	975.92	0.00	439948.61	810146.86	0.00	
								439848.61			
12800.00	90.00	179.57	11970.00	-1075.89	8.12	1075.92	0.00		810147.62	0.00	
12900.00	90.00	179.57	11970.00	-1175.88	8.87	1175.92	0.00	439748.62	810148.37	0.00	
13000.00	90.00	179.57	11970.00	-1275.88	9.63	1275.92	0.00	439648.62	810149.13	0.00	
13100.00	90.00	179.57	11970.00	-1375.88	10.38	1375.92	0.00	439548.62	810149.88	0.00	
13200.00	90.00	179.57	11970.00	-1475.87	11.14	1475.92	* 0.00	439448.63	810150.64	0.00	
13300.00	90.00	179.57	11970.00	-1575.87	11.89	1575.92	0.00	439348.63	810151.39	0.00	
13400.00	90.00	179,57	11970.00	-1675.87	12.65	1675.92	0.00	439248.63	810152.15	0.00	
13500.00	90.00	179.57	11970.00	-1775.87	13.40	1775.92	0.00	439148.63	810152.90	0.00	
13600.00	90.00	179.57	11970.00	-1875.86	14.15	1875.92	0.00	439048.64	810153.65	0.00	
13700.00	90.00	179.57	11970.00	-1975.86	14.91	1975.92	0.00	438948.64	810154.41	0.00	
13800.00	90.00	179.57	11970.00	-2075.86	15.66	2075.92	0.00	438848.64	810155.16	0.00	
13900.00	90.00	179.57	11970.00	-2175.85	16.42	2175.92	0.00	438748.65	810155.92	0.00	
14000.00	90.00	179.57	11970.00	-2275.85	17.17	2275.92	0.00	438648.55	810156.67	0.00	
14100.00	90.00	179.57	11970.00	-2375.85	17.93	2375.92	0.00	438548.65	810157.43	0.00	
14200.00	90.00	179.57	11970.00	-2475.85	18.68	2475.92	0.00	438448.65	610158.18	0.00	
14300.00	90.00	179.57	11970.00	-2575.84	19.44	2575.92	0.00	438348.56	810158.94	0.00	
14400.00	90.00	179.57	11970.00	-2675.84	20.19	2675.92	0.00	438248.66	810159.69	0.00	
14500.00	90.00	179.57	11970.00	-2775.84	20.95	2775.92	0.00	438148.66	810160.45	0.00	
14600.00	90.00	179.57	11970.00	-2875.83	21.70	2875.92	0.00	438048.67	810161.20	0.00	
14700.00	90.00	179.57	11970.00	-2975.83	22.45	2975.92	0.00	437948.67	B10161.95	0.00	
14800.00	90.00	179.57	11970.00	-3075.83	23.21	3075.92	0.00	437848.67	810162.71	0.00	
14900.00	90.00	179.57	11970.00	-3175.83	23.96	3175.92	0.00	437748.67	810163.46	0.00	
15000.00	90.00	179.57	11970.00	-3275.82	24.72	3275.92	0.00	437648.68	810164.22	0.00	
15100.00	90.00			-3275.82	25.47	3375.92	0.00	437548.68	810164.97	0.00	
		179.57	11970.00	-3475.82		3475.92	0.00	437548.68		0.00	
15200.00	90.00	179.57	11970.00		26.23				810165.73		
15300.00	90.00	179.57	11970.00	-3575.81	26.98	3575.92	0.00	437348.69	810165.48	0.00	
15400.00	90.00	179.57	11970.00	-3675.81	27.74	3675.92	0.00	437248.69	810167.24	0.00	
15500.00	90,00	179.57	11970.00	-3775.81	28.49	3775.92	0.00	437148.69	810167.99	0.00	
15600.00	90.00	179.57	11970.00	-3875.81	29.25	3875.92	0.00	437048.69	810168.75	0.00	
15700.00	90.00	179.57	11970.00	-3975.80	30.00	3975.92	0.00	436948.70	810169.50	0.00	
15800.00	90.00	179.57	11970.00	-4075.80	30.76	4075.92	0.00	436848.70	810170.26	0.00	
15900.00	90.00	179.57	11970.00	-4175.80	31.51	4175.92	0.00	436748.70	810171.01	0.00	
16000.00	90.00	179.57	11970.00	-4275.79	32.26	4275.92	0.00	436648.71	810171.76	0.00	
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16269.81	90.00	179,57	11970.00	-4545.60	34.30	4545,73	0.00	436378.90	810173.80	0.00	PBHL

Weatherford International Limited

5D Plan Report

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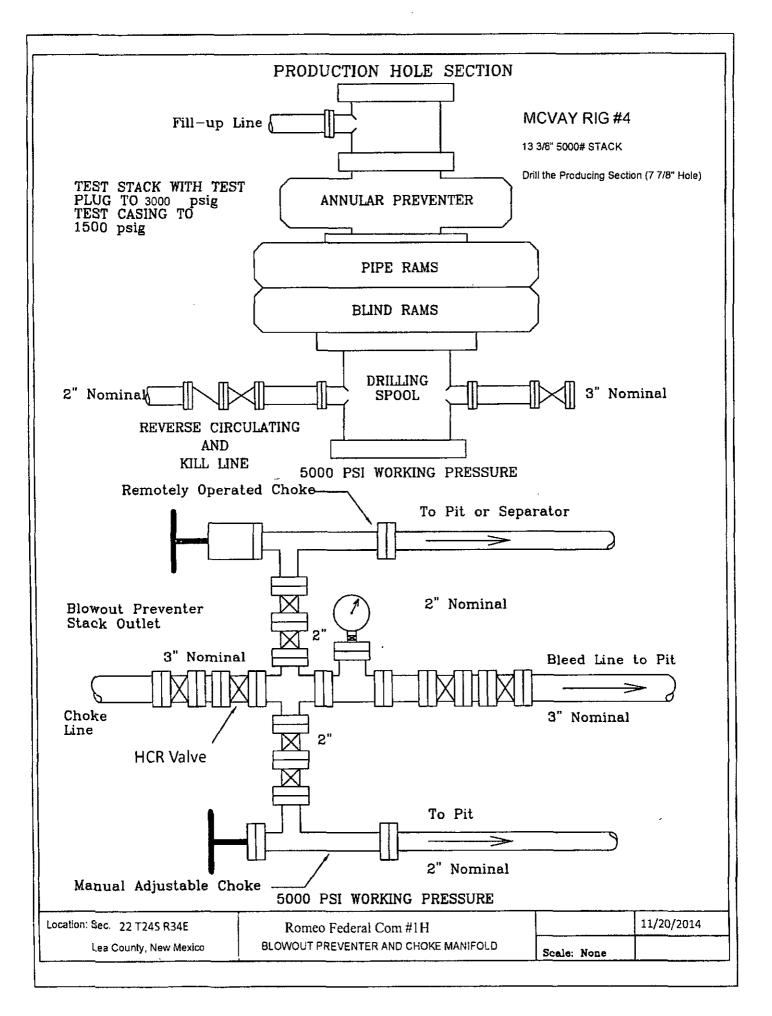
Weatherford

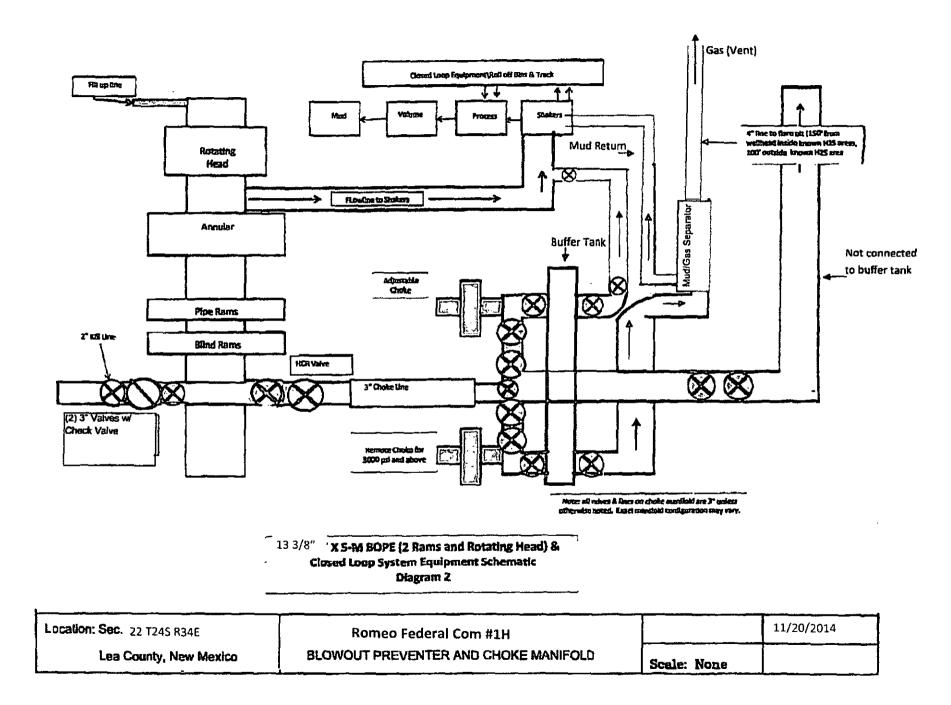
Weatherford Drilling Services GeoDec4 v2.0.0.3

Job Number:	August 06, 2014							
Customer: G	MT E	<u></u>						
API Number:	Romeo Fed Com #1H							
Rig Name: Location: L	ea Co							
Block: Engineer: P	Patrick Rudolph							
NAD83 / New Mexico	East	(ftUS)	NAD83 (1986)					
Projected Coordinate	Syste	em	Geodetic Coordinate	Syste	em			
Datum: North Americ	an Da	atum 1983 (1986)	Datum: North Ameri	ican D	Datum 1983 (1986)			
Ellipsoid: GRS 1980			Ellipsoid: GRS 1980					
EPSG: 2257			EPSG: 4269					
North: 440924.5 US S	Survey	/ Foot	Latitude: 32.209191 Degree					
East: 810139.5 US Su	rvey	Foot	Longitude: 103.464232 Degree					
Convergence: 0.469								
Convergence. 0.40								
-								
Declination: 7.23°	70							
Declination: 7.23° Total Correction: 6.77	- 1	ne						
Convergence: 0.46° Declination: 7.23° Total Correction: 6.77 Datum Transformatio Geodetic Location WC	 in: no 	ne						
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Declination: 7.23° Total Correction: 6.77 Datum Transformatio Geodetic Location WC MSL Elevation = Latitude = Longitude = Magnetic Declination Local Gravity Local Field Strength Magnetic Dip	 \$\$\$84 0 m 32° 103° = =	12' 33.09" N 9 27' 51.24" W 7.23 deg .9988 g 48268 nT 60.09 deg	CheckSum Magnetic Vector X Magnetic Vector Y	=				
Declination: 7.23° Total Correction: 6.77 Datum Transformatio Geodetic Location WC MSL Elevation = Latitude = Longitude = Magnetic Declination Local Gravity Local Field Strength	 SS84 0 m 32° 103° = =	12' 33.09" N ? 27' 51.24" W 7.23 deg .9988 g 48268 nT	CheckSum Magnetic Vector X	=	23880 nT			
Declination: 7.23° Total Correction: 6.77 Datum Transformatio Geodetic Location WC MSL Elevation = Latitude = Longitude = Magnetic Declination Local Gravity Local Field Strength Magnetic Dip	J pn: no SS84 0 m 32° 103° = = = =	12' 33.09" N 9 27' 51.24" W 7.23 deg .9988 g 48268 nT 60.09 deg	CheckSum Magnetic Vector X Magnetic Vector Y Magnetic Vector Z	=	23880 nT 3028 nT			

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ACQUISITIONS . EXPLORATION . PRODUCTION

November 20, 2014

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RE: BLM On Site Visit

To Whom It May Concern,

On June 12, 2014 Trisha Badbear of the BLM met GMT Exploration's representative Harvey Waller on location at the Romeo Federal Com #1H, Lease NM77090, Sec 22 T24S R34E, Lea County, NM.

Sincerely,

Keith Kress VP Operations

SURFACE USE PLAN

GMT Exploration Company, LLC

Romeo Federal Com #1H Surface Location: 400' FNL & 660' FWL, Section 22, T24S-R34E Bottom Hole Location: 330' FSL & 660' FWL, Section 22, T24S-R34E Lea County, New Mexico FEDERAL LEASE No. NMNM-77090

1. Existing Roads

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102 (Exhibit 1) and Well Pad Topo (Exhibit 2). The well was staked by Basin Surveys.
- b. All existing roads within the vicinity of the well are depicted topographic, geographic and aerial maps of Exhibit 3 (3 pages).
- c. The existing lease road will be maintained in the same or better condition. A regular maintenance program will include, but is not limited to, blading, ditching, culvert installation and surfacing.
- d. Directions to Location: From the city of Jal, go west on US 128, west of mile marker 35, turn south to existing lease road and proposed pad.
- 2. Access Roads to be Constructed and/or Reconstructed
 - a. Exhibit 2 shows the proposed 510' of new access road. The new access road will be constructed as follows. The maximum width of the road will be 15'. It will be crowned and made of 6" rolled and compacted caliche. Water will be deflected, as necessary to avoid accumulation and prevent surface erosion.
 - b. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to location. The average grade will be approximately 1%.
 - c. No cattle guards, grates or fence cuts will be necessary. No turnouts are planned.
- 3. Location of Existing Wells within 1-Mile Radius of the Proposed Location:

a.	Existing wells	See Exhibit 4.
b.	Injection/Disposal Wells	None.
c.	Drilling Wells	None.
d.	Proposed Wells	See Exhibit 4.
e.	Water Wells	None.
f.	Plugged Wells	See Exhibit 4.

- 4. Location of Existing and/or Proposed Facilities if the Well is Productive
 - a. If the well is productive, a tank battery will be utilized and the necessary production equipment will be installed at the well site. See Well Site Layout diagram. (Exhibit 5)
 - b. The tank battery will be surrounded by a synthetic spray in liner with a sump of sufficient size to contain the capacity 110% of the largest tank volume and account for the volume arising from the equipment footprint within the liner.
 - c. All permanent above-ground structures not subject to safety requirements will be painted to blend with the natural color of the landscape. The paint used will be a color that simulates the "Standard Environmental Colors" as specified in the COA's.
 - d. All access roads will be upgraded and maintained as necessary to prevent erosion and accommodate year-around traffic if the well is a producer.
 - e. The pipeline tie in will be located 15' off of the SWSW corner of the pad. (Exhibit 5)
 - f. In the event of production, the following items will be done:
 - i. All site-security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- 5. Location and Type of Water Supply

This location will be drilled using a combination of water mud systems (outline in the Drilling Program). The water will be obtained from a private water well, for drilling and completion work. If additional water is needed, it will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing proposed roads shown in the C-102.

6. Construction Methods

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- a. Construction methods employed will follow the standard procedures and requirements of the BLM on Federal lands.
- b. Surface and subsoil materials along the roadway will be utilized.
- c. No construction materials will be removed from Federal lands.
- d. Any materials to be used which are under BLM jurisdiction shall be approved in advance as per CFR 3610.2-3.
- 7. Methods for Handling Waste Disposal
 - a. Drill cuttings will be disposed.
 - b. All trash, junk and other waster material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.

- c. All state and local laws and regulations pertaining to disposal of human and solid waste shall be complied with. GMT will hire a commercial company to provide outhouses on location. The outhouses on location with holding tanks are serviced by the commercial company once a week.
- d. GMT and its contractor(s) maintain a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances, which are used during the course of construction, drilling completion, and production operations for this project. Hazardous materials, which may be found at the site, may include drilling mud and cement products, which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and
 - . acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment. GMT Exploration Company, LLC maintains an Emergency Response Plan which includes notifying the BLM of all reportable spills of oil, produced water, and hazardous substances.
- 8. Ancillary Facilities

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No campsite or other ancillary facilities will be constructed as a result of this well.

- 9. Well site Layout
 - a. Exhibit 6 shows the Rig Location Layout with the dimensions of the pad layout.
 - b. Mud pits in the active circulating system will be steel pits.
 - c. A closed loop system will be utilized.
 - d. If a pit or closed loop system is utilized, GMT Exploration Company will comply with NMOCD requirements 19.15.17 and submit form C-144 to the appropriate NMOCD District Office. A copy to be provided to the BLM.
- 10. Plans for Surface Reclamation
 - a. After concluding the drilling and/or completion operations, if the well is found noncommercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed to near original conditions and the original top soil will be returned to the pad and contoured, as close as possible, to the original topography.
- 11. Surface Ownership

The surface is owned by the Rubert F Madera. The surface is for multiple uses with the primary uses of the region for the grazing of livestock and the production of oil and gas.

12. Other Information

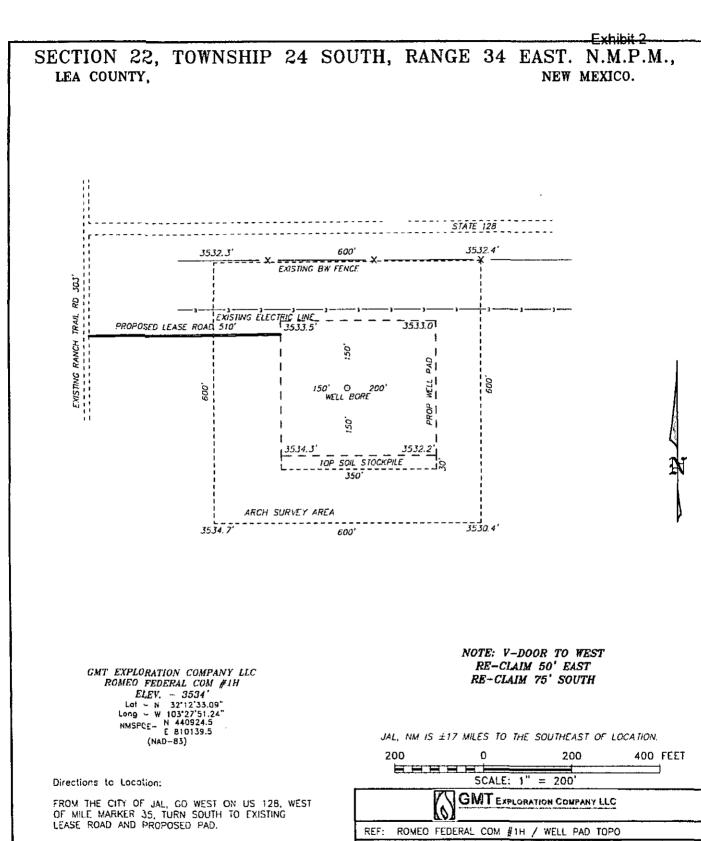
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- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sage brush, yucca and miscellaneous weeds.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. The Carlsbad Field office (BLM) 575-234-5972 is to be advised when road and pad construction will begin.
- e. "Sundry Notice and Report of Well" (Form 3160-S) will be filed for approval for all changes of plans and other operations in accordance with 32 CFR 3164.
- f. The dirt contractor will be provided with an approved copy of the surface use plan.
- g. All survey monuments found within the area of operations shall be protected. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, military control monuments and recognizable civil, both public and private, survey monuments. In the event of obliteration or disturbance of any of the above, the incident shall be reported in writing to the authorized officer.
- 13. Lessee's or Operator's Representative and Certification see attached

DISTRICT I 1825 N. French Dr., Phane (373) 800-8181 DISTRICT II 811 S. First St., A Fame (376) 746-1280 DISTRICT III 1000 Rio Brazos R Phane (363) 334-8178 DISTRICT IV	Artesia, NM 6 Faz: (575) 748-9 d., Aztec, NM Faz: (505) 334-6	88210 720 M 87410 170		CON	SERV	Natural ATI h St.	w Mexico Resources Departm ON DIVIS Francis Dr. Mexico 87505	Su	Revised Aug	rm C-102 ust 1, 2011 appropriate trict Office	
1220 S. St. Francis D Phone (505) 476-3480 1	ir., Santa Fe, 1 Faz: (505) 478-3	NM 87505 462	WELL LO	CATION	AND A	ACREA	GE DEDICATI	ON PLAT	AMENDEI	REPORT	
API	Number		96	Pool Code		Re	dHills;	Bow Spri	ry. North	_	
Property	Code			RO	Prope MEO FE	DERA			Well N 1H		
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	1	1			Surfac					1	
UL or lot No. D	Section 22	Township 24 S	Range 34 E	Lot Idn	Feet from 40	27. 27.24	SOUTH/South line NORTH	Feet from the 660	East/West line WEST	County LEA	
			Bottom	Hole Lo	cation I	f Diffe	erent From Sur	face		_	
UL or lot No. M	Section 22	Township 24 S	Range 34 E	Lot Idn	Feet from		SOUTH/South line	Feet from the 660	East/West line WEST	County	
Dedicated Acre			nsolidation	Code Or	der No.	0	30011	000	WEST	LEA	
35.52.3 (4.4413)92 (44203) (44203) (44203) (44203) (4.650) (4.650)	3532.4 2 3530.4	OR A M	LOCATION 32°12'33.09" 03°27'51.24" 440924.5 810139.5	NDARD UN IN 4413403 E 0121193 (NAD03) PAD03)	NIT HAS	BEEN	S	THE DIVISION OPERATO I haraby contained here the bast of my this organicalis contained here the bast of my this organicalis contained here the biocation pr the division Signature Hereit H Frinted Nam SURVEYO I hereby certifi	DR CERTIFICA' rhify that the inform in is true and comp knowledge and belog n either owns a wor- Elsed mineral intere the proposed bottom a right to drill this result to a contract a mineral or working ary pooling agreement ing order heretofore kRESS at the CENESS	FION nation lets to f, and that thing if in the hole well at with an interest, or a entered by 1/21/14 Date M. COM FION Yan shown	
000	в.н. о	FROPOSI HOLE I Lat - N Long - W	ED EOTTOM .CCATION .22'11'48.11' 03'27'51.26' 4 436578.9 810173.8 -83)	+			NL 4360 E 5140 (MAD)	actual surveys supervison as correct is the Date Survey Signature & Professional Certificant B 0' 500'	made by me or at that the same is that the same is my belie with the same is the new same is the new same is the new same is the new same is the new same is the new same is the new same is the new same is the new same is the new same is the new same is the new same is the new same is t	s 7977	

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THE ROMEO FEDERAL COM #1H LOCATED 400' FROM THE NORTH LINE AND 660' FROM THE WEST LINE OF

SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST.

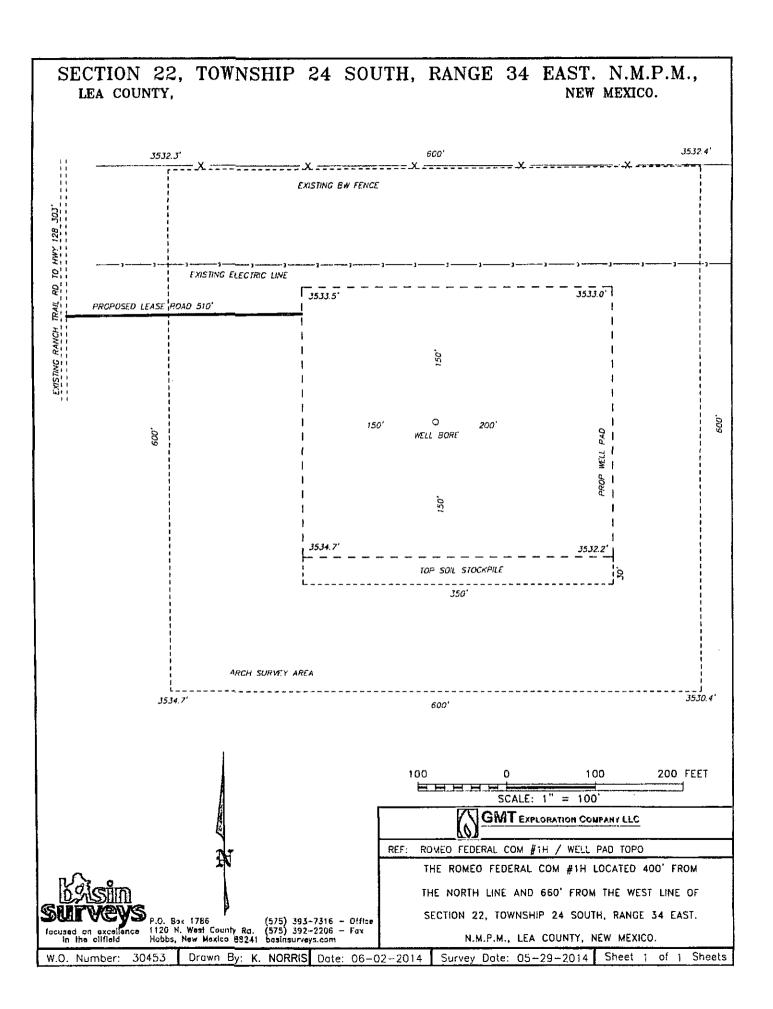
N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: 30453 Drown By: K. NORRIS Date: 06-02-2014 Survey Date: 05-29-2014 Sheet 1 of 1 Sheets

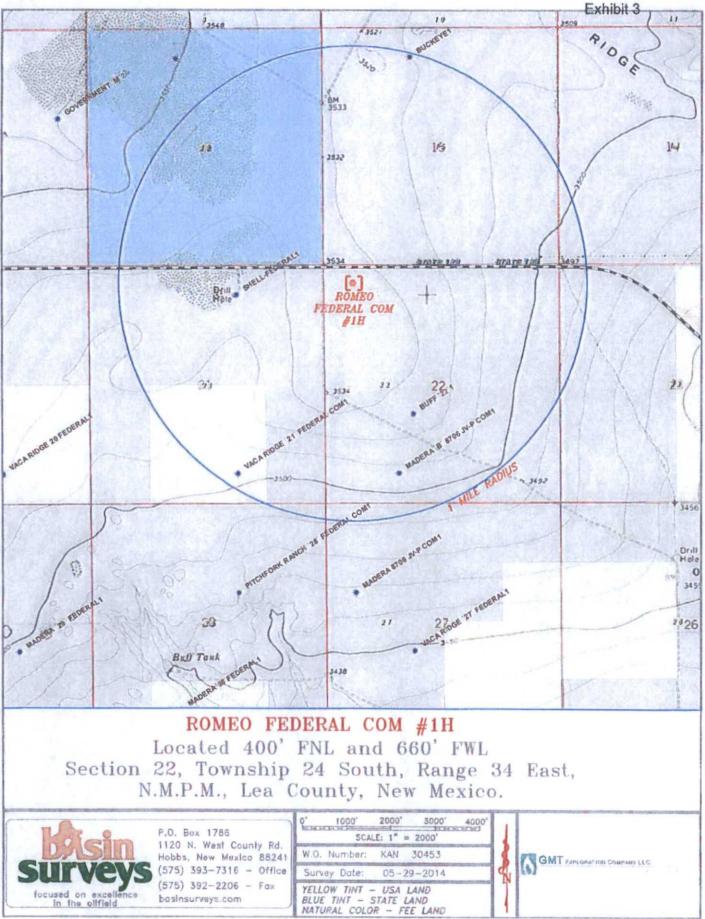
F.O. Box 1786
 (575) 393-7316 - Office
 1120 Ν. Wast County Rd.
 (575) 392-2206 - Fax
 Hobbs, New Mexico 88241
 basinsurveys.com

excellence

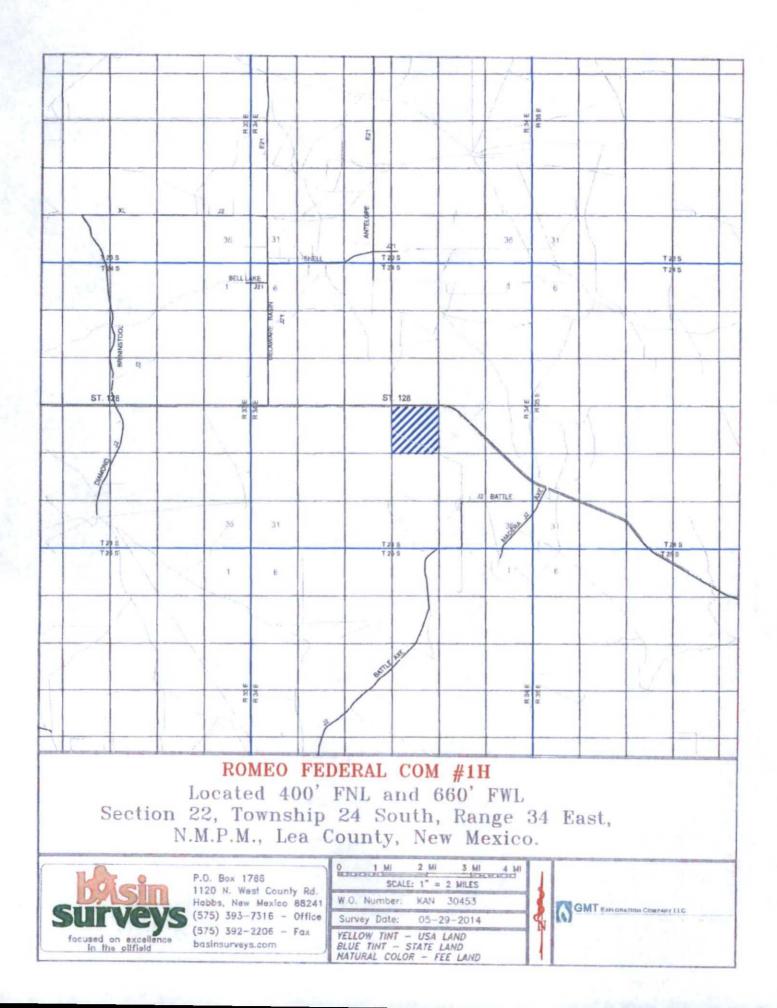
focused on excell in the olifield



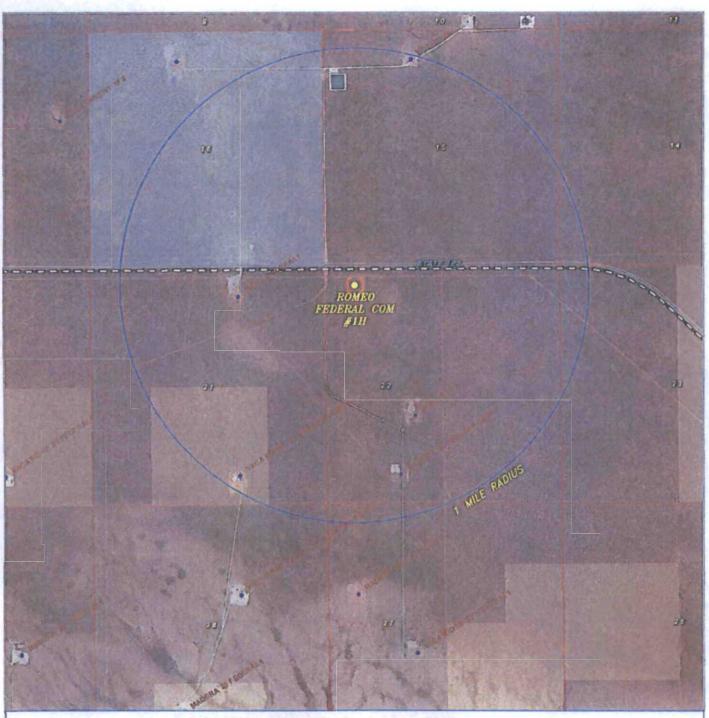
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ROMEO FEDERAL COM #1H Located 400' FNL and 660' FWL Section 22, Township 24 South, Range 34 East, N.M.P.M., Lea County, New Mexico.

Main	P.O. Box 1786	0" 1000' 2000' 3000' 4000' <u>ELECTICE</u> SCALE: 1" = 2000'	1	
Surveys	1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office	W.O. Number: KAN 30453 Survey Date: 05-29-2014		GMT ERPLORATION COMPANY LLC
focused on excellence in the oilfield	(575) 392-2206 - Fax basinsurveys.com	YELLOW TINT – USA LAND BLUE TINT – STATE LAND NATURAL COLOR – FEE LAND	Ĩ	

Exhibit 4

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	Wells in 1 M	ile Radius of SL	
API	Company	Well Name	Qrt/Qrt Location
30025416650000	EOG Resources INC	Jolly Roger 16 State #1H	Sec 16 T24S R34E
30025405660000	GMT Exploration	Pirate State #1H	Sec 16 T24S R34E
	Plugged Wells in a	a 1 Mile Radius of SL	
30025084940000	Cabeen Exploration Co	Shell-Federal #1	Sec 21 T24S R34E
30025700948400	Southland Royalty Co	Vaca Ridge '21' Fed #2	Sec 21 T24S R34E
30025286410000	Southland Royalty Co	Vaca Ridge '21' Fed #1	Sec 21 T24S R34E
30025282350000	HNG Oil Co	Buff '22' #1	Sec 22 T24S R34E
30025301790000	BTA Oil Producers	Madera "B" 8706 JV #1	Sec 22 T24S R34E
30025275720000	Coquina Oil Corp	Buckeye #1	Sec 15 T24S R34E

	Wells in 1 Mil	e Radius of BHL		
API	Company	Well Name	Qrt/Qrt Location	
30025284880000	EOG Resources	Pitchfork Ranch '28' #1	Sec 28 T24S R34E	
	Plugged Wells in a	1 Mile Radius of BHL		
30025084940000	Cabeen Exploration Co	Shell-Federal #1	Sec 21 T24S R34E	
30025700948400	Southland Royalty Co	Vaca Ridge '21' Fed #2	Sec 21 T24S R34E	
30025286410000	Southland Royalty Co	Vaca Ridge '21' Fed #1	Sec 21 T24S R34E	
30025282350000	HNG Oil Co	Buff '22' #1	Sec 22 T24S R34E	
30025301790000	BTA Oil Producers	Madera "B" 8706 JV #1	Sec 22 T24S R34E	
30025299170000	BTA Oil Producers	Madera 8706 JV-P Co #1	Sec 27 T24S R34E	
30025283210000	Southland Royalty Co	Vaca Ridge '27' Fed #1	Sec 27 T24S R34E	

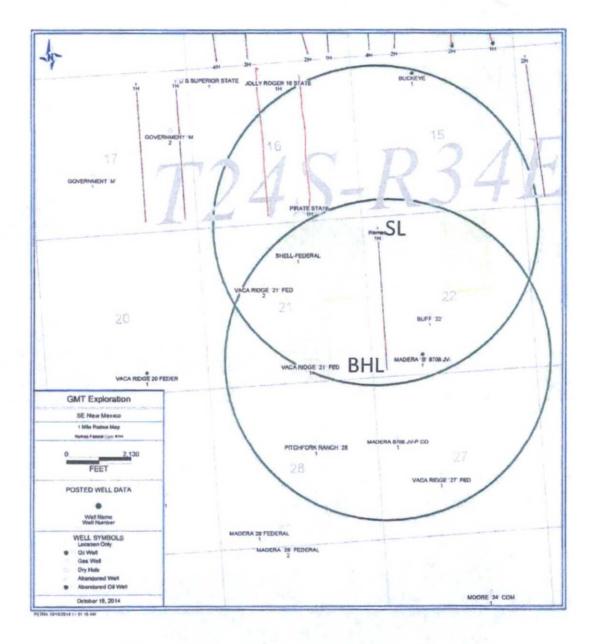
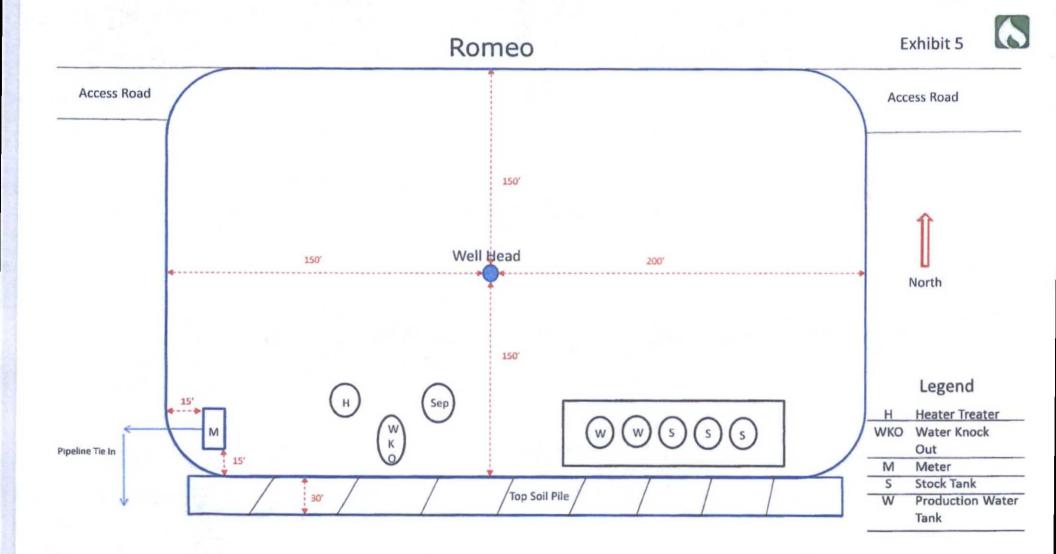
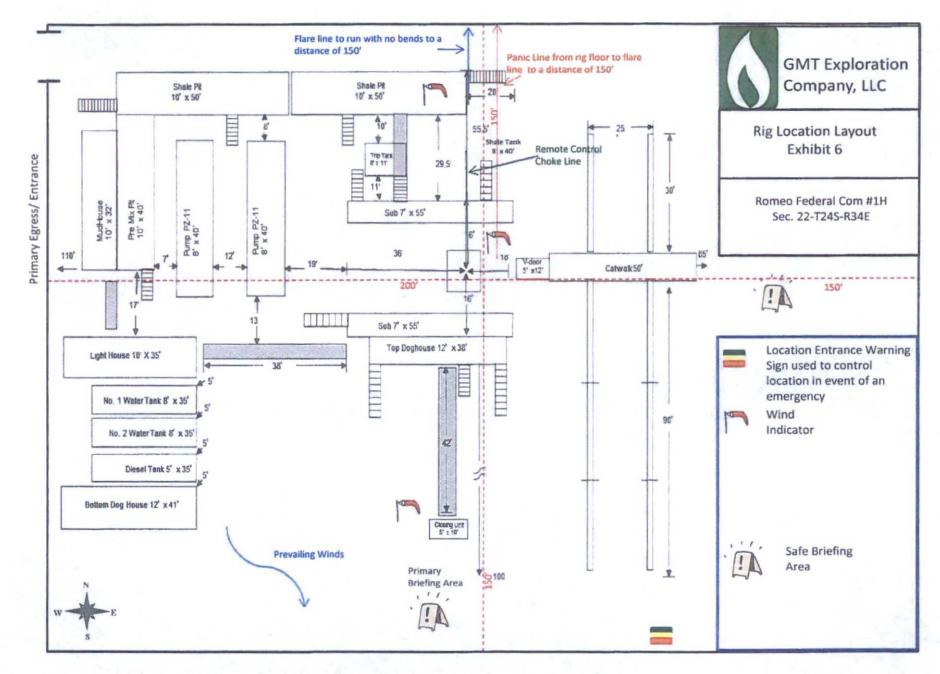


EXHIBIT 4

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Not to Scale

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ACQUISITIONS . EXPLORATION . PRODUCTION

November 1, 2014

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Bureau of Land Management - Carlsbad Office 620 East Greene Street Carlsbad, NM 88220

RE: Operator's Representative and Certification Romeo Federal Com #1H

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 21^{57} day of NOV. 2014.

GMT Exploration Company, LLC Keith Kress VP Engineering 1560 Broadway Suite 2000 Denver, CO 80202 (303) 586-9281

Field Representative: B.J. Cox 1025 9th Street Rock Springs, WY 82901 (307) 354-8895

Keith Kress GMT Exploration Company, LLC

Keith Kress • KKress@gmtexploration.com 1560 Broadway, Suite 2000 Denver, CO 80202 Office: 303.586.9281 • Fax 720.946.3034



ACQUISITIONS . EXPLORATION . PRODUCTION

November 21, 2014

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Self-Certification Statement

Please be advised that GMT Exploration Company, LLC is the operator of the Romeo Federal Com #1H well; located in D of Section 22, Township 24 South, Range 34 East. Lease number NMNM- 77090, Lea County, New Mexico; and is responsible under the terms and conditions of the lease and for the operations conducted upon leased lands. Bond coverage is provided under BLM Bond Number RLB0014473.

Keith Kress, Vice President Operations