District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	mane ACD	Form C-101
Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u>	Energy Minerals and Natural Reso	HOBBSOCD urces	Revised July 18, 2013
811 S. First St., Artesia, NM 38210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District 111</u>	Oil Conservation Division	DEC 1 5 2014	AMENDED REPORT
1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV	1220 South St. Francis Dr.		
1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462	Santa Fe, NM 87505	RECEIVED	
APPLICATION FOR PERMIT TO	D DRILL, RE-ENTER, DEEPEN, P	LUGBACK, OR	ADD A ZONE
Operator Name ar) Number

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* Prop	erty Code		30-0	295752 API Number 209- 30 Well	0026				
				^{7.} Sı	Irface Location	<u>τ</u> ρ			
UL - Lot P	Section 22	Township 8N	Range 35E	. Lot Idn	Feet from 940	N/S Line SOUTH	Feet From 660	E/W Line EAST	County CURRY
		•		* Propos	ed Bottom Hol	e Location	······································		
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
	·	II		9. Pc	ol Information) ·	I	I	······
		WC	-009	NOS	Name 3 5 2 2 P;	M155 (GAS)		98108

W.C-009 NO83522P; MISS (GAS)

^{11.} Work Type	12.	Well Type	Vell Type ^{13.} Cable/Rotary R		^{15.} Ground Level Elevation 4522.0
^{16.} Multiple	^{17.} Proposed Depth 10,350'		^{18.} Formation Mississippian	^{19.} Contractor NORTON ENERGY	^{20.} Spud Date DECEMBER 20 TH , 2014
Depth to Ground water		Distance from	nearest fresh water well	Distance to	nearest sufface water

We will be using a closed-loop system in lieu of lined pits

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^{21.} Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Conductor	24-inch	16-inch	94#	180-feet	NA	Surface
Surface	14.75-inch	11.75-inch	47#	1,900-feet	880	Surface
ntermediate	10.625-in	8.625-inch	32#	7,840-feet	800	1,900-feet 170
Production	7.875-in	5.50-inch	20#	10,350-feet	500	7,400-feet

asing/Cement Program: Additional Comments

^{22.} Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	3,000 psi	2,100 psi	Hydril
Double Ram	3,000 psi	3,000 psi	Shaffer

Attachments: Burnett 22-P Drilling & Completion Plan (2 pgs)
Lithology (1 pg)
Preliminary Drilling Program (1 pg)
Norton Energy Rig 6 BOP Stack Diagram (1 pg)
Wellbore Schematic (1 pg)
Casing and Cementing Details for Surface/Intermediate/Production Holes (3 pgs)
Surface Use Plan (2 pgs)
C-102 Plat (1 pg)
Location Plat (1 pg)
One Mile Radius Plat (2 pgs)
Plat (1 pg)
Well Pad Plat (1 pg)
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best of my knowledge and belief.	i given above is true and complete to t	OIL CONSERVATION DIVISION
I further certify that I have complie 19.15.14.9 (B) NMAC , if applica Signature: Brislant 4	ble.	Approved By:
Printed name: Bridget Helfrich		Title: Petroleum Engineer
Title: Regulatory Coordinator		Approved Date: 12/16/14 Expiration Date: 12/16/16
E-mail Address: bhelfrich@altamesa.	net	
Date: 12/8/14	Phone: 281-943-1373	Conditions of Approval Attached

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Burnett 22-P Drilling and Completion Plan

The well will be drilled with reserve pit water transferred from our Pulliam Farms 27-P (one mile south of this location) water-based fluids from surface to the bottom of the Santa Rosa Formation ("freshwater aquifer"). Surface conductor and surface casing strings will be installed and cemented. Below the Santa Rosa Formation, the well will be drilled with diesel-oil base drilling fluid to our total depth in the Mississippi Lime formation. Additional intermediate strings and production casing will be installed and cemented as prescribed, with contingency casing and cementing solutions approved by the District supervisor. Hydraulic stimulation will be performed in the prospective zones, and gas and water flow testing will be conducted in individual and/or commingled zones.

Drilling Program

- Lithology
 - Tucumcari Basin
 - This area has been the subject of limited oil & gas exploration activity
 - Approximate depths of key geologic formations are shown in table below
 - o Prospective formations are in the Pennsylvanian section
- Fluid Bearing Formations
 - Potable water (300 1700 feet below ground surface)
 - Brackish water (1700+ feet below ground surface)
 - Natural gas/condensate (~7,000 10,100 feet below ground level)
- Drilling Fluids
 - Freshwater drilling fluids (see Attachment A2)
 - Reserve pit recycled water for water-based, 8.3-8.6 ppg, viscosifiers and LCM additives
 - Oil-based drilling fluids (see Attachment A2)
 - Diesel oil-based fluids, 8.0-9.0 ppg, lime, caustic soda, viscosifiers and LCM additives
 - Lost Circulation Materials (LCM)
 - As needed, LCM consisting of, but not limited to, cedar fibers, mica, drilling paper, graphite, walnut plug, cottonseed hulls and calcium carbonate may be introduced into the well bore
- Wellhead Pressure Control (Blowout Prevention [BOP])
 - Wellhead BOP equipment is standard design for "tight gas" wells, as shown on Attachment A3
 - Maximum pressures for equipment (wellhead A section to be 11" 5,000 psi; wellhead B section to be 11" 5,000 psi; BOP with 11" 3,000 psi annular preventer; and with 11" 3,000 psi ram preventers)
 - Maximum downhole pressures anticipated ~4400 psi
 - o BOP testing procedures conducted by third party contractor upon installation
 - Ram preventers to 3,000 psi and 250 psi; Annular preventer to 2100 psi and 250 psi, for 10
 minutes and 5 minutes, respectively
- Directional Drilling
 - o This well is planned as vertical; inclination added for engineering effort to simulate tortuosity

Casing and Cementing Program

- All casing run and set will be new and unused. Details are included below:
- Surface Casing
 - 14.75-inch diameter well bore, drilled to 1,900 feet.
 - o 11.75-inch diameter casing installed and cemented to surface
- Intermediate Casing
 - 10.625-inch diameter well bore, drilled to 7,640 feet.
 - o 8.625-inch diameter casing installed and cemented to 1,900 feet
- Production Casing

- o 7.875-inch diameter well bore, drilled to 10,350 feet.
- o 5.50-inch diameter casing installed and cemented to 7,600 feet

Well Completion

- Casing Perforation
 - Perforate casing in prospective sand zones, using six shots per foot (spf), 60 degree, phased perforating guns
- Hydraulic Fracturing
 - Treat prospective sand zones with ceramic and/or sand proppant materials during hydraulic fracturing

.

Logging and Testing

- Lithologic Logging
 - Mudlogging (00' to TD); Selective coring (side-wall cores likely with wireline)
- Wireline-Logging, including but not limited to:
 - o Gamma Ray, Resistivity, Porosity, Neutron and Sonic data collection
 - o Spectroscopy, Sigma, and NMR
- Flow Testing
 - o Flow individual production zones for up to 3 days
 - Flow entire well for up to 120 days

Lithology

.

Wellsite elevation is 4,522'

Rig KB 17.5' above ground level

Significant Formation Tops	Drill Depth	Subsea Depth
Santa Rosa	1,200'	+3,339′
San Andres	3,450′	+1,089'
Glorietta	3,764'	+775′
Tubb	5,141′	-602′
Abo	5,640'	-1,101′
Wolfcamp	6,591′	-2,052'
Pennsylvanian	7,638′	-3,099′
Mississippian	10,206'	-5,667′
Basement	10,331'	-5,792'

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Preliminary Drilling Program

Lease and Well Name: Burnett 22-P

Location:

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Broadview, NM	34° 49' 10.11"N 103° 12' 48.87"W
Lease Entrance	34° 53' 43.82"N 103° 12' 49.49"W
Well Site	34° 53' 47.04"N 103° 12' 55.49"W

Directions:

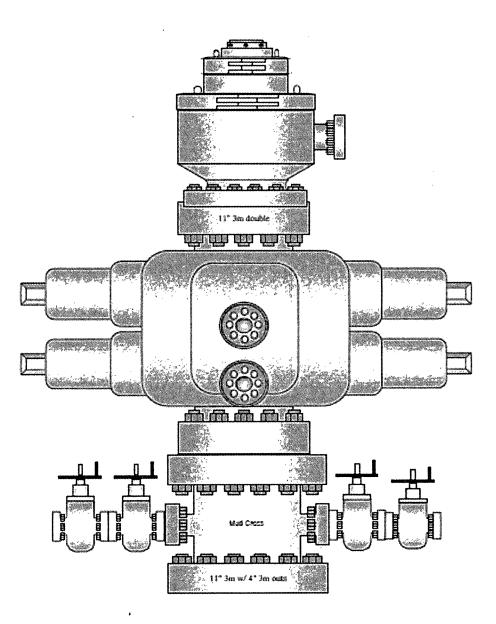
From Tucumcari, take Interstate 40 East. Take Exit 356 toward San Jon. Keep right at the fork and merge onto NM-469 (South 4th St). Go 14.9 miles and turn left onto NM-275. Go 7.9 miles and turn right on NM-275 (Curry Road K). Go 1.8 miles and entrance will be on the right.

From Clovis, take NM-209 North. Go 28.1 miles to Broadview and continue north on Curry Road K. Go 5.2 miles and entrance will be on the left.

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Alta Mesa Services, LP Burnett 22-P Curry County, New Mexico

Norton Energy Drilling, LLC Blowout Preventer Stack



Wellbore Schematic

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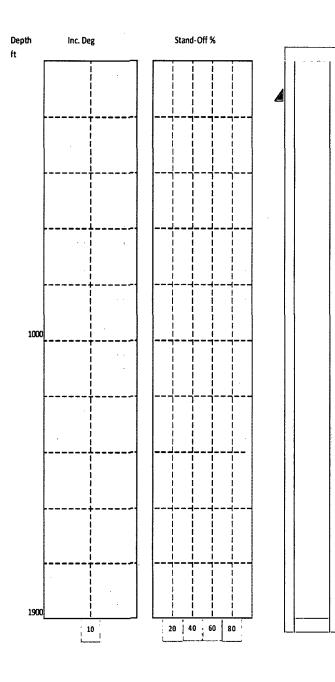
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<u>BEVIATION</u>	LOGGING	MARKERS	MD	SS		_		PROF	ΊLE			SZE		DETAILS	TYPE	PROGRAM
	None		+/-180'	+/-4,359'		_	_		<u> </u>			24"		16" x .375"	Fresh Water	Grout
	Mud					+			L.							580 sx lead
Totco	Loggers			·····					L.'						Fresh Water	CI C 35/65
500'									<u> </u>						Spud Mud	+6% gel
maximum								<u>i</u>	L					11.75"	Gel, Lime	12.8 ppg
	GR-SP	·····						į						47.0 PPF	LCM	300 sx tail
Straight hole	DILL	Santa Rosa	1,200'	3,339'		_			<u> </u>					J-55		ac
	SONIC	Water Sands						 	Li_					BTC OR	·····	14.8 ppg
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maximum	DENSITY						·			·	i -			32.0 PPF		
to 6,700'	SONIC SCAN				·				<u> </u>		-			J-55 &		
Gyro	MAG RES	Dragoviluonian	7 0201	-3,099'		/-			+	·	K -			HCK-55	MW 8.4 ppg	
Optional	ECS	Pennsylvanian	7,638'	-3,098.	<u>⊢ ′</u> ∠	-	╉		<u> </u>	-	4	10.625		LT&C	IVIV 0.4 ppg	
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	NEUTRON DENSITY	Mississippian	10,206'	-5,667'	.					-				Casing 5.5"	- · ·	12.8 ppg
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Gyro	SONIC SCAN	Granita	10 2241	-5 700'	· · ·-			; <u>-</u>	÷	-				20.0 ppf P-110	·	
Optional	MAG RES	Granite	10,331'	-5,792'	· · - · -	-	┢		1	\mathbf{k}	. *					
	ECS	Total Depth	10,350'	-5,811'	1					1 🔨	1 1	7.875)"	LTC	MW 8.4 ppg	

Casing and Cementing Details

Surface Hole

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Set Depth	Top ([RT])	Stre	Walzht	Grade	Conn	DAA	OUTSt	Collepse	Tension
1,900'	17.5′	11 ¾"	47#	J-55	BTC	10.844"	3,070 psi	1,510 psi	807 kips



CASING UNER CEMENT JOB

 Shoe Depth : 1900.00 ft

 Shoe TVD
 : 1900.00 ft

 OH SIZE
 : 14.750 in

CASING From Bottom to Top 1900 ft Casing OD 11.750 in ID 11.0 in W 47.00 lb/ft

Displacement: 120.8 bbl

Cement Slurries

LEAD SLURRY 585 sacks					
Volume	: 191.15 bbl				
Density	: 12.80 ppg				
Mix Water	: 136.06 bbl				

TAIL SLURRY	300 sacks
Volume	: 71.92 bb l
Density	: 14.80 ppg
Mix Water	: 45.3 bbl

Intermediate Hole

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Set Depth	90T (ETE)	হীহত	<i>U</i> CIER WORLD	Cieclo	Conn	Diffic	Ounst	Collepse	Tenelon
4,800'	15'	8 5/8″	32#	J55	LTC	7.875″	3,930 psi	2,530 psi	417 kips
7,640'	4,800'	8 5/8"	32#	HCK55	LTC	7.875″	3,930 psi	4,130 psi	556 kips

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Production Hole

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10,350'	15′	5 ½"	20#	P110	LTC	4.653	12360 psi	11080 psi	548 kips

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Burnett 22-P Surface Use Plan

The well location, associated facilities and access roads will be constructed on fee surface, upon approval of the surface owner. Well site and access roads will be constructed to withstand the loads occurring during mobilization, placement and operation of drilling, completion and testing equipment. Construction activities will be conducted to minimize surface disturbances and to readily accommodate reclamation activities on disturbed areas.

Existing Roads

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- Access to Location
 - From the town of Broadview, New Mexico
 - Drive north on County Road K, about 5.2 miles
 - Location is on the west side of County Road K

Roads to be Constructed/Maintained

- Improved Roads
 - o County Road (maintained by Curry County)
- Two-Track Roads
 - Construct improved 2-Track road segment to access *Burnett 22-P* location adjacent to existing county road
 - Grade/crown road, placing crushed aggregate as needed
 - Install culverts and/or rock-filled, low water crossings, as needed

Well Site Layout

- Well pad location and associated facilities are shown on Well Location, Burnett 22-P, Topographic Maps
 - o The staked well location and proposed access road are shown on Location photos
 - Well location, water well, access roads, above-ground tanks and temporary buildings, and storage areas are shown on Location Layout for *Burnett 22-P*

Water Supply

• See previous section in Drilling and Completion Plan

Existing Oil & Gas Wells

- Terry Pamela Stovall Partnership 13-1 is located approximately 2.3 miles northeast of the Burnett 22-P

 Well is permanently abandoned
- Pulliam Farms 27-P is located approximately 1.0 miles south of the Burnett 22-P
 - o Well is permanently abandoned

Existing and/or Proposed Facilities

- Well Site Facilities
 - o Located at well site
- Temporary living quarters
 - Located at well site

Storm Water Management Plan

- Storm water management and erosion control practices will be implemented during construction, operations, and reclamations
 - To utilize surface location that minimizes impact on natural storm water flow
 - \circ To use diversion trenches to eliminate flow of storm water onto the location

Waste Management and Disposal

- Drilling fluids and cuttings and other solids will be disposed of off-site at an approved commercial facility
- Other solid wastes will be accumulated and disposed of off-site at permitted landfill

Produced Water Management and Disposal

• Produced water, and hydraulic fracturing fluids will be disposed of off-site; some fluids may be treated and reused on-site or at other well locations. Concentrated waste fluids will be disposed of off-site at permitted disposal facility

Construction Materials

- Fill material and Aggregate obtained from local sources
- Top soil temporarily stockpiled at perimeter of well pad and along construction corridors for subsequent use during reclamation

Reclamation

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- Areas temporarily disturbed during construction, and well drilling, completion and testing will be reclaimed to original conditions, as soon as is practical and in consultation with the surface owner
 - Disturbed areas will be re-contoured to match existing topography
 - o Topsoil salvaged during construction activities will be spread to a minimum thickness of 6 inches
 - Reclaimed areas will be planted with seed mixture recommended by local Soil Conservation Service and/or BLM staff, and approved by surface owner
- Areas disturbed during construction and subsequent oil & gas production will be reclaimed to original conditions as soon after oil & gas production ceases, as is practical, and in consultation with the surface owner