NAVAJO NATION

APD

Tribal Operations on
Tribal Lands
PERMIT
ACCEPTED FOR
RECORD ONLY

RCVD APR 17'12 OIL CONS. DIV. DIST. 3

•	Form 3160 -3 (August 2007)	FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010										
j	UNITED STATES DEPARTMENT OF THE D BUREAU OF LAND MANA	5. Lease Serial No. NO-G-1008-1773										
	APPLICATION FOR PERMIT TO I	6. If Indian, Allotce or Tribe Name NAVAJO NATION										
	la. Type of work: DRILL REENTE	7 If Unit or CA Agr	eement, Name and No.									
	lb. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well No. CBM A Pod 14 D #1										
	Name of Operator NNOGC Exploration and Production LLC	9. API Well No. 30-045-35334										
	3a. Address 1675 BROADWAY, SUITE 1100 DENVER, CO 80202		10. Field and Pool, or Exploratory BASIN FRUIT. COAL, WC GALL, & DK									
	4. Location of Well (Report location clearly and in accordance with any At surface 1294' FNL & 1049' FWL NWW	state requirem	nents.*)		11. Sec., T. R. M. or I NWNW 14-27N-1	Blk.and Survey or Area 4W NMPM						
	At proposed prod. zone SAME	1	0011		٠.							
	14. Distance in miles and direction from nearest town or post office* 11 AIR MILES SSW OF FARMINGTON, NM		<u>), s, s </u>		12. County or Parish SAN JUAN	13. State NM						
	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	150,000 N2 (Fru			ing Unit dedicated to this well uit. Coal & Dakota) and NWNW (Gallup) O. 10 - 11/2 Gallup: 40							
	18. Distance from proposed location ⁶ to nearest well, drilling, completed, applied for, on this lease, ft.	20. BLM/	M/BIA Bond No. on file									
	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,965' UNGRADED is action is subject to technical and	10/01/201		rt*	23. Estimated duration 1 MONTH							
	OFOCACUTAL FOUNDMENT OF THE AD OFF THE TOTAL AND A TOT											
	The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: "GENERAL REQUIREMENTS". 1. Well plat certified by a registered surveyor. 1. Well plat certified by a registered surveyor.											
	Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).									
	3. A Surface Use Plan (if the location is on National Porest System SUPO must be filed with the appropriate forest Service Office).	cation specific inf	nformation and/or plans as may be required by the									
<u></u>	25. Signature Burn		BLM. (Printed/Typed) N WOOD (505	466-8120	Date 07/09/2011							
	Title											
IS	CONSULTANT Approved by (Signature)	5 466-968	2)	Date								
4 III	reproted by failments)	(Printed/Typed)	Date									
0 00 0 00	Title			Ω Ω Ω								
NG NG	Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. (Continued on page 2) ACCEPTED FOR RECORD BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS AUTHORIZATION REQUIRED FOR OPERATIONS AUTHORIZATION REQUIRED FOR OPERATIONS AUTHORIZATION PIELD OFFICE											
ASI	Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.											
AZ O C	(Continued on page 2)	1	*(Instructions on page 2)									
FY RT(ACCEPTED FOR RECORD		BLM'S APPROVAL OR ACCEPTANCE OF THIS									
NOTIFY AZTEC	DEC 1 4 2011		BLM'S APPROVAL OR ACCEL TARGET AND ACTION DOES NOT RELIEVE THE LESSEE AN OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATION AUTHORIZATION PUBLISHED FOR OPERATION AND AUTHORIZATION AND AUTHORIZATION PUBLISHED FOR OPERATION AND AUTHORIZATION PUBLISHED FOR OPERATION AND AUTHORIZATION AND AUTHORIZATION PUBLISHED FOR OPERATION AND AUTHORIZATION AND AUTHORIZATION									
Zh	FARMINGTON PIELD OFFICE		AUTHORIZATION REQUIRED AND S									

FARMINGTON PIELD OFFICE

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

APR 3 0 2012 Ca

Amoer

ACCEPTED FOR RECORD

APPENDIX 1-1

CVLIIDIT "A#

COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd , Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Mining Resources Department OIL CONSERVATION DIVISION

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

Form C - 102 Revised July 16, 2010 Submit one copy to appropriate Distric Office

1220 S. St. Francis Dr., Santa Fe, NM 87505	; Sa	nta Fe, NM	87505			☐ AMENDED REPORT \
	WELL LOCATIO	N AND ACE	REAGE DE	DICATION	PLAT	,
1 API Number	² Pool Code		3 Pool Na	ine		
30-045-35334	71629	1	, B	SIN FRU	IITLAN	ID COAL (GAS)
Property Code	001	³ Property Name	⁶ Well Number			
39183	CRM	A Pod 1			·	1
⁷ OGRID No. 242841	NNOCC Evalor	Operator Name		on 11.0		⁹ Elevation 5965'
242041	NNOGC Explore	10 Surface Loc		on LLC		3903
UL or Lot Section Township	Range Lot Idn.	Feet from the N		Feet from the	East/West	tine County
D 14 27 N	14 W 400	1294'	NORTH	TH 1049'		T SAN JUAN
<u> </u>	Bottom Hole Loca	tion If Differen	t From Surfa	ce	<u> </u>	
UL or Lot Section Township	Range Lot idn.	Feet from the	lorth/South line	Feet from the	East/West	line County
12 Dedicated Acres 13 Joint or Infill 14 Co	nsolidation Code 15 C	<u> </u>				
320	nsolidation Code " C	Order No.				
<u> </u>					······································	
No allowable will assigned to this division.	•		been consol	idated or a no	n standa	rd unit has been approved by the
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[0]			i		K I	was n working interest or unleased mineral interest in the kent including
// 10AQ/ 1 :					K II	the bassium hole location or him the right to itell this well of this location pursuant to a contract with an awner of a mineral interest or working
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polior NAD 36.5	7890° lat. 30316° long.				K I	7-9-11
			}		8	Signature Date
80		•	i		8	BRIAN WOOD
No.	ļ		į		6	Printed Name
*			who			brian@permitswest.com
ò	, N				8	SURVEYOR CERTIFICATION
Öl i	'ior		İ		1 - 1	I hereby certify that the well location shown on this
0000	section)		.80,00	plat was plotted from field notes of actual surveys .
					8	made by me or under my supervision, and that the
v	!		l	,	11	same is true and correct to the besst of my belief.
	<u>_</u>					O5/O5/'.11 Date of Survey
* from BLM						Signature and seal of physiquesional Surveyor
** calculated						The Message
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Form C - 102 Revised July 16, 2010 Submit one copy to appropriate Distric Office

☐ AMENDED REPORT

1220 S. St. F	mncis Dr., Sa	nia i C, Mi	41 67203										AMENDED REPORT
r				WELL			AND AC	REA	GE DE	DICATION			
1 API Number 30-045- 35334			9787\ WC27N14W14;										
	rty Code 183]			C	BM	Property Nam A Pod	14D	,				⁶ Well Number
⁷ OGR	RID No. 2841	1		NNOG	C Eval		Operator Nam		duati	on II C			⁹ Elevation 5965'
272	.0+1	<u> </u>		NINOG	o Expi	101 01	Surface Lo		uucti	on LLC			3303
UL or Lot	Section	Townshi	P /	Range	Lot I	ldn. F			outh line	Feet from the	East/	Wes	t line County
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W 5280.00' *	1049' D NAD 8: 36.578		890° k	long.	`				ő		A	17 OPERATOR CERTIFICATION I hereby certify that the information creations of hereby certify that the information creations of the test of my boun looke and held, and that this originariation when the house hold hereby on write and interest on the head including the house hold hereby on the test of interest on the head including the house hold hereby or his the right on this live will set this including pursuant to a contract with an origin of a support indexest or each one traction. The property of the property of the property of the property pooling only fresh for free to the live should be a support of the property of the prope	
s 00.22,00	from Bl	.M led		gectif	\$ **			0		 -		.,00,80,00 S	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and currect to the heast of my belief. 05/05/11 Date of Survey Signature and seal of paragrassional Surveyor
			· · ·	89°50′	00" W	520	80.44' **						Certificate Number 6844

District 1
1625 N. French Dr., Hobbs, NM 88240
District 11
1301 W. grand Avenue, Artesia, NM 88210
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State of New Mexico Energy, Minerals & Mining Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C - 102
Revised July 16, 2010
Submit one copy to appropriate
Distric Office

☐ AMENDED REPORT

Certificate Number 6844

	·		WELL LOC	ATION AND	ACREAC	GE DE	DICATION	PLAT		
	API Numb	Code	Pool Name BASIN DAKOTA							
	0-045- 353 ⁴ Property Code			⁵ Property Name						⁶ Well Number
	39183	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								1
	⁷ OGRID No. 242841		NNOGC E	*Operation		ductio	on LLC			⁹ Elevation 5965 ′
					ce Location					
	1 1	Township	I	1			Feet from the	East/West	1	County
L	D 14	27 N		129		RTH	1049'	WES	<u> </u>	SAN JUAN
VI	or Lot Section	Township	Bottom Ho	e Location If D ot Idn. Feet from	the North/So	n Surfac	Feet from the	East/West	line	County
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	320	or min	*Consolidation Code	15 Order No.						
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xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	1049' POO'	D NA	D 83 D.D .57890° lat.				ő		I hereby writif: that to the best of my in units a working lake the ballome hole loc- pursuant to a contr	TOR CERTIFICATION s the Information creational herein at true and complete towledge and belief, and that this origanization either treats or undersord inderest in the fund including taken or has the right to whill this writ as this londering town with an owner of physicard interest or working town with an owner of physicard interest or working times, pool agreement or a computative pooling times, pool agreement or a computative pooling times, pool agreement or a
W 5280.00' *	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10	8.30316° long					7 5280.0	Printed No	permitswest.com
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	from BL calculati	M ed	S 89°50' 00"				· ;:·		Signature and CERA	111 Jest of physics donal Surveyor 11 NEMCO CO 6844 21 July Surveyor

S 89°50' 00" W 5280.44' **

NNOGC Exploration and Production LLC CBM A Pod 14 D #1 1294' FNL & 1049' FWL Sec. 14, T. 27 N., R. 14 W. San Juan County, New Mexico

Drilling Program

1. FORMATION TOPS

The estimated tops of important geologic markers are:

<u>Formation</u>	GL Depth	KB Depth	Elevation
Kirtland Shale	0'	10'	+5,965'
Fruitland Formation	940'	950'	+5,025'
Pictured Cliffs Sandstone	1,170'	1,180'	+4,795'
Lewis Shale	1,490'	1,500'	+4,475'
Mesa Verde Sandstone	1,980'	1,990'	+3,985'
Point Lookout Sandstone	3,765'	3,775'	+2,200'
Mancos Shale	3,915'	3,925'	+2,050'
Upper Gallup Sandstone	4,915'	4,925'	+1,050'
Lower Gallup Sandstone	5,075'	5,085'	+890'
Sanostee	5,290'	5,300'	+675'
Dakota Sandstone	5,815'	5,825'	+150'
Morrison Formation	5,990'	6,000'	-25'
Total Depth (TD)	6,000'	6,010'	-35'

2. NOTABLE ZONES

Fruitland coal gas is the primary goal. Gallup and Dakota are the secondary goals. Oil and gas shows which appear to the well geologist to be commercial will be tested. All fresh water and prospectively valuable minerals will be recorded by depth and protected with casing and cement. Water could be found in the Fruitland, Pictured Cliffs, Point Lookout, Gallup, and Dakota formations.



NNOGC Exploration and Production LLC CBM A Pod 14 D #1 1294' FNL & 1049' FWL Sec. 14, T. 27 N., R. 14 W. San Juan County, New Mexico

3. PRESSURE CONTROL

A double ram type \geq 2,000 psi working pressure BOP with a rotating head system will be used. See the preceding page for a diagram of the typical BOP equipment. All ram type preventers and related equipment will be hydraulically tested to \approx 1,500 psi at nipple-up and after any use under pressure. A typical diagram is attached.

The blind rams will be hydraulically activated and checked for operational readiness each time the pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold. All will be rated to $\geq 2,000$ psi.

4. CASING & CEMENT

Hole Size	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Age</u>	Coupling	Depth Set
12-1/4"	8-5/8"	24#	J-55	New	ST&C	350'
7-7/8"	4-1/2"	10.5#	J-55	` New	ĽΤ&C	6,000'
				•	- 5	

Surface casing will be cemented to the surface with 245 sacks (289 cubic feet) Class B with 3% $CaCl_2$. Yield = 1.18 cubic feet per sack. Slurry weight = 15.6 pounds per gallon. Excess = 100%. W.O.C.=12 hours. Pressure test the surface casing to \approx 1,500 psi for 30 minutes. A notched collar and 3 centralizers will be used on the bottom 3 collars.

Production casing will be cemented to the surface. A DV tool will be set at $\approx 3,000$ '. Hole will first be circulated with $\geq 150\%$ hole volume of mud and ≈ 30 barrels of fresh water. Total cement volume = 2,284 cubic feet ($\approx 65\%$ excess). A 4-1/2" cement guide shoe and self filling float collar will be used. Place the float one joint above the shoe. Place 10 centralizers spaced every



NNOGC Exploration and Production LLC CBM A Pod 14 D #1 1294' FNL & 1049' FWL Sec. 14, T. 27 N., R. 14 W. San Juan County, New Mexico

other joint above the shoe, 2 turbolizers on the collar below the DV tool, and 2 turbolizers above the DV tool. Place 5 turbolizers every third joint from the top of the well.

First Stage: Lead with 570 sacks (1,003 cubic feet) Class B 65/35 poz with 6% gel + 1% CaCl2 + 4% phenoseal + 1/4 pound per sack cello flake. Yield = 1.76 cubic feet per sack. Slurry weight = 12.8 pounds per gallon.

First Stage: Tail with 100 sacks (146 cubic feet) Class B 50/50 poz with 0.15% dispersant + 1% $CaCl_2 + 1/4$ pound per sack cello flake. Yield = 1.46 cubic feet per sack. Slurry weight = 13.0 pounds per gallon.

Second Stage: Precede cement with ≈ 20 barrels of water. Cement with ≈ 645 sacks (1,135 cubic feet) Class B 65/35 poz with 6% gel + 1% CaCl2 + 1/4 pound per sack cello flake. Yield = 1.76 cubic feet per sack. Slurry weight = 12.8 pounds per gallon.

5. MUD PROGRAM

The surface hole will be drilled with a fresh water mud. The production hole will be drilled with a fresh water polymer. Weighting materials will be drill solids or, if conditions dictate, barite. Maximum expected mud weight = 9.5 pounds per gallon.

6. CORES, LOGS, & TESTS

No cores or drill stem tests are currently planned. FDC/CNL/GR/SP and DIL logs will be run from the base of the surface casing to TD.



NNOGC Exploration and Production LLC CBM A Pod 14 D #1 1294' FNL & 1049' FWL Sec. 14, T. 27 N., R. 14 W. San Juan County, New Mexico

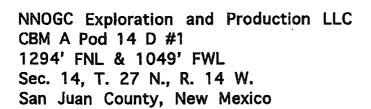
7. DOWN HOLE CONDITIONS

No abnormal temperatures, abnormal pressures, or hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≈2,598 psi.

8. OTHER INFORMATION

The anticipated spud date is October 1, 2011. It is expected it will take ≈10 days to drill and ≈2 weeks to complete the well.





Surface Use Plan

1. <u>DIRECTIONS</u> (See PAGE 11)

From the NM-371 San Juan River bridge in southwest Farmington
Go South ≈6-1/2 miles on NM 371 to the equivalent of Mile Post 99.8
Then turn right and go West 2.3 miles on paved N-3003
Then turn left and go South 4.0 miles on paved N-4055
Then turn right and go Southwest 2.0 miles on paved N-4150
Then turn right and go Northwest ≈75' on a dirt
Then turn left and go Southwest ≈100 yards cross country to the pad
(The cross country route follows the proposed pipeline route.)

Roads will be maintained to at least equal to their present condition.

2. ROAD WORK (See PAGE 15)

NM One Call (811) and NAPI (505 566-2623 or 505 793-4923) will be called at least 2 working days before construction starts. The ≈ 100 yards of new road will be built to BLM Gold Book standards. Road will have a ≈ 14 ' wide running surface and will be rocked as needed. One 18" x 20' culvert will be installed at the northeast corner of the pad. No vehicle turn out or cattle guard is needed. Maximum disturbed width will be 20'. Maximum cut or fill \approx 2'. Maximum grade \approx 1%. Upgrade of the existing road will consist of rocking as needed.

3. EXISTING WELLS (See PAGE 13)

One plugged well is within a mile radius. There are no water, oil, gas, or



NNOGC Exploration and Production LLC CBM A Pod 14 D #1 1294' FNL & 1049' FWL Sec. 14, T. 27 N., R. 14 W. San Juan County, New Mexico

inspected the drill site and access route proposed herein; 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 9th day of July, 2011.

Brian Wood, Consultant Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Mobile: (505) 699-2276

The field representatives will be:

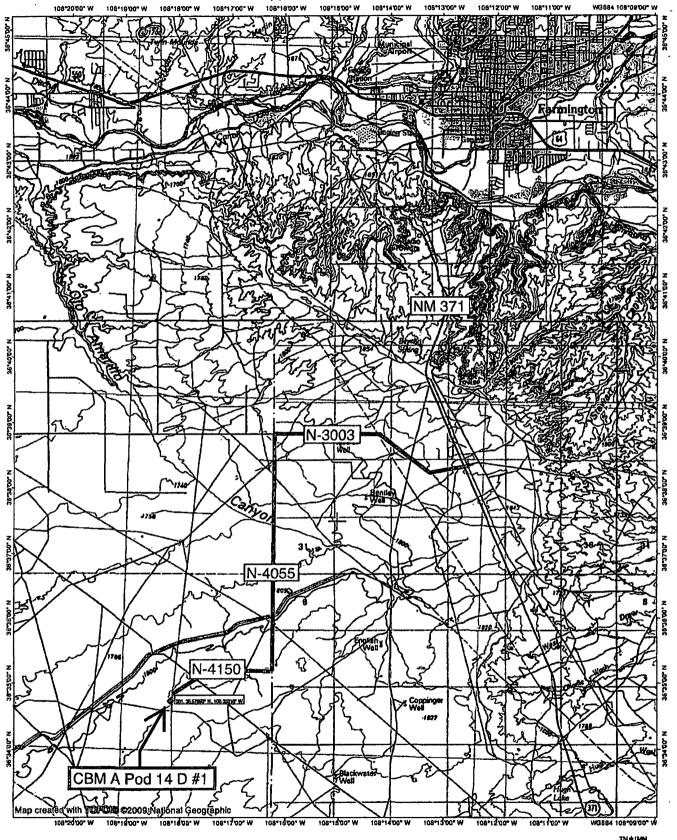
John Hatch Navajo Nation Oil & Gas Co., Inc. 1675 Broadway, Suite 1100 Denver, CO 80202 (303) 534-8300

or

Paul Thompson or West Hahn Walsh Engineering & Production Corp. 7415 East Main St. Farmington, NM 87402 (505) 327-4892



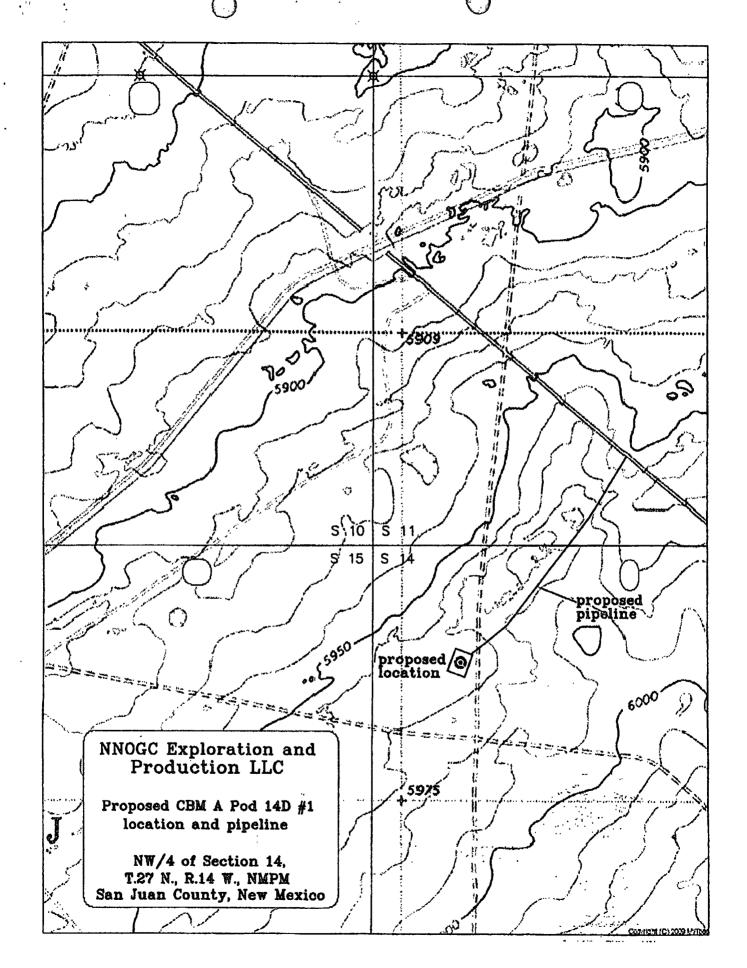
TOPOI map printed on 07/09/11 from "Untitled.tpo"

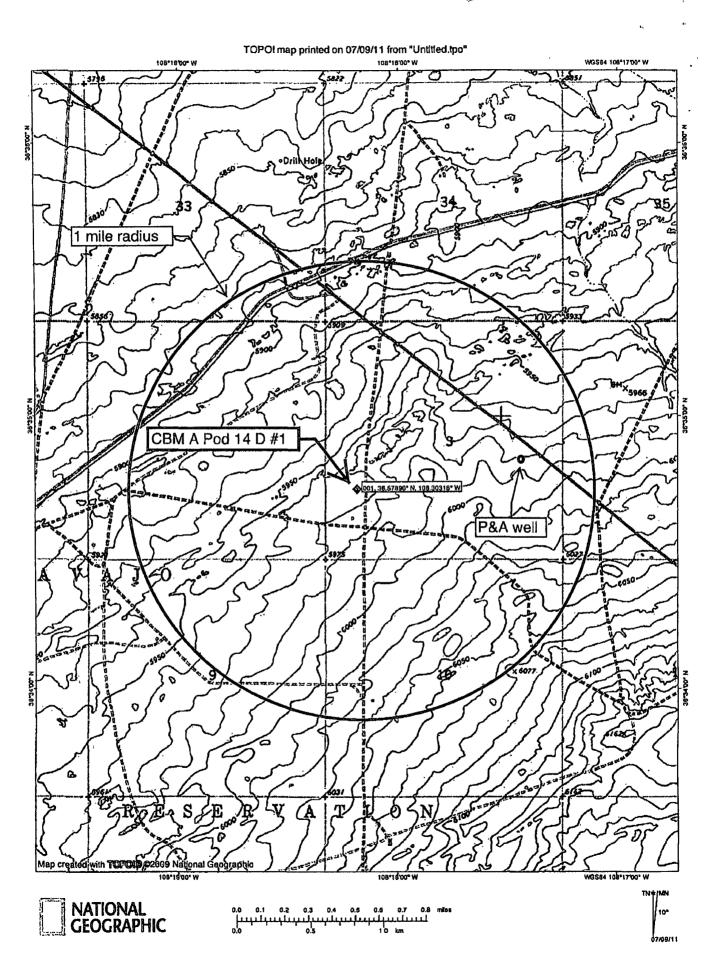


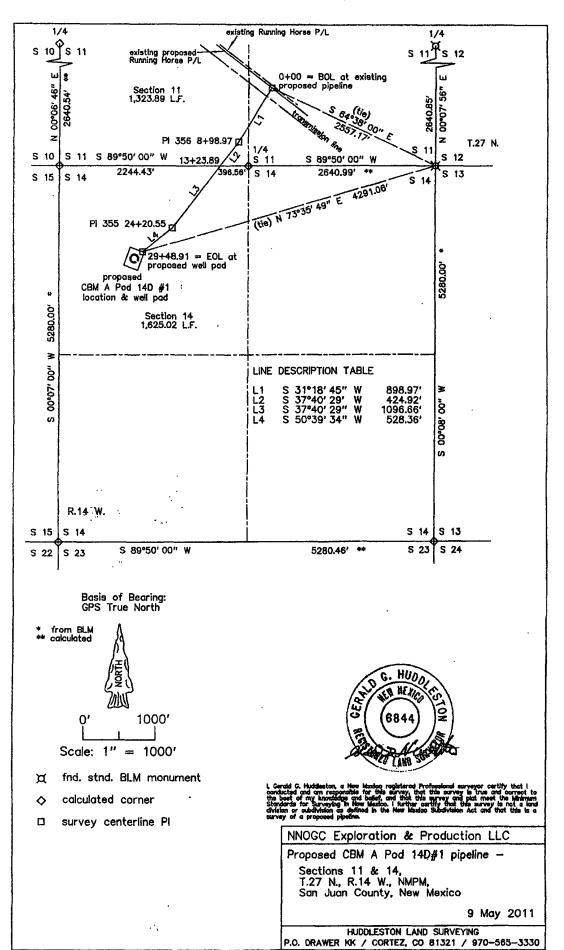


0 0.5 1.0 1.5 2.0 2.5 3.0 miles

10°







NNOGC Exploration and Production LLC CBM A Pod 14 D #1 1294' FNL & 1049' FWL Sec. 14, T. 27 N., R. 14 W.

San Juan County, New Mexico

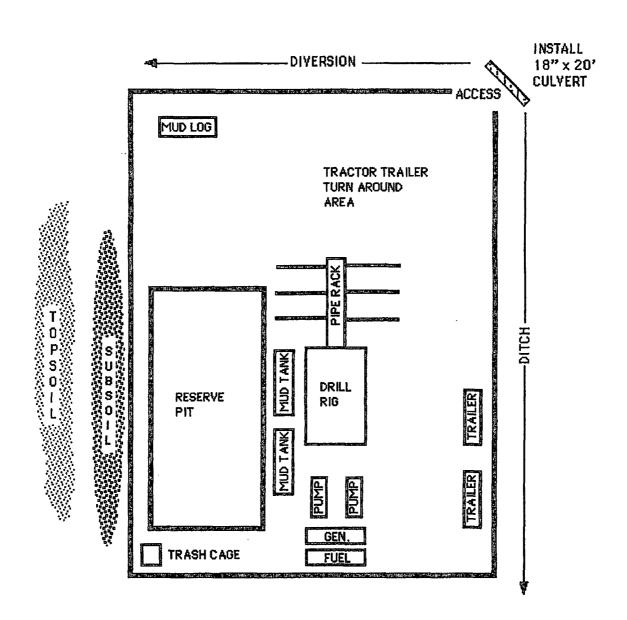
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PAGE 15

NORTH

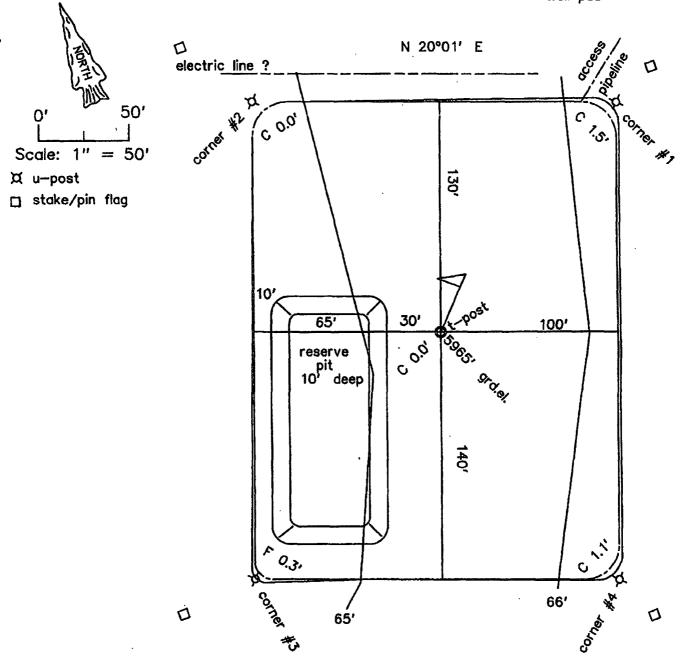


1 " # 50'



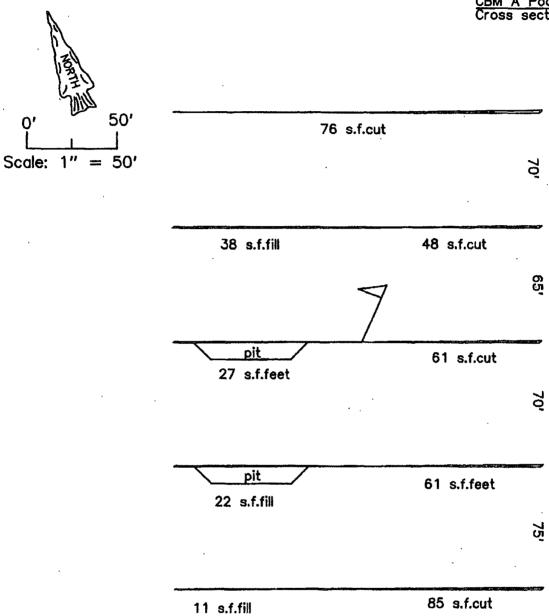


CBM A Pod 14D#1 Well pad



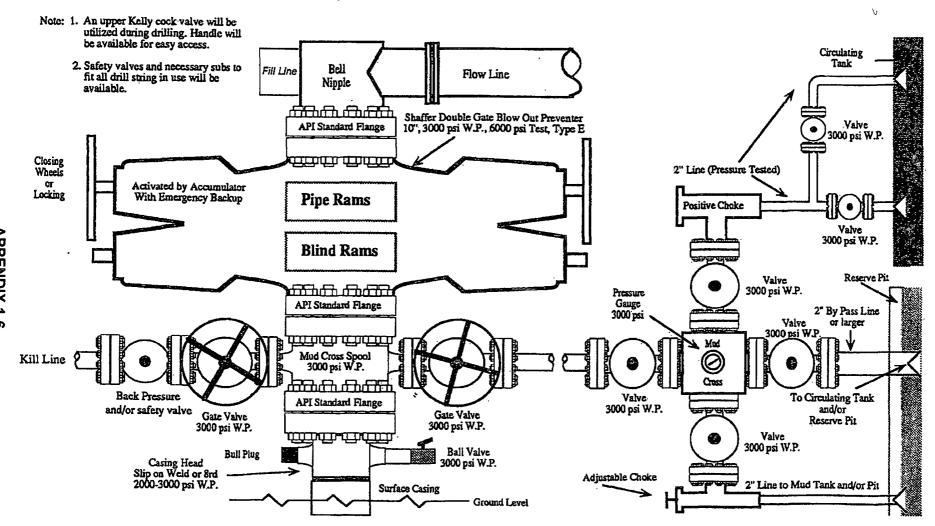
Limits of disturbance — 1.27 acres ... 2,948.91 feet new access & pipeline References: N 22°10' W 215.99' 5965.1' elevation S 42°11' W 215.94' 5964.4' elevation N 58°40' E 192.14' 5966.4' elevation S 16°53' E 200.08' 5966.6' elevation

CBM A Pod 14D#1 Cross sections



Approximate dirt quantities above reserve pit: 652 cys. cut 188 cys. fill 464 cys. excess

2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.