

Form 3160-3 (February 2005)

RESUBMITTAL

DEC 26 2007 OCD-ARTESIA

FORM APPROVED OMB NO 1004-0137

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Expires: March 31,2007 5. Lease Serial No.

NM-103594

APPLICATION FOR PERMIT TO D		6. If Indian, Allottee or Tribe Name					
					n/a		
				7. If Unit or CA Agre	ement, N	ame and No.	
1a. Type of Work: X DRILL	REENT	TER			n/a		
torned female	•		F	8. Lease Name and W	ell No.	35/61	
1b. Type of Well: Oil Well X Gas Well Other		Single Zone Multiple Zo	one \	Koonunga Hi	II BGX I	35/6/ Federal #2	
2. Name of Operator	,			9. API Well No.			
Yates Petroleum Corporatio	n 0255	375		30 - 015 - 360/4 10. Field and Pool, or Exploratory			
3a. Address	3b. Pho	one No. (include area code)	1	10. Field and Pool, or Exploratory			
105 South Fourth Street, Artesia, NM 88210		505-748-1471	1	Undes. McIv	ar Ranci	h Marraw	
4. Location of well (Report location clearly and In accordance)	with any			1. Sec., T., R., M., or			
At surface Carlsbad Con	1	1. 500., 1., 10., 11., 01	DIK. THIC	ourrey or rueu			
						~	
At proposed prod. zone S- per of		Section 19	, T 22 S-	R 25 E			
1980' EXL and 66	o' FWI	Bottom Hole Location					
14. Distance in miles and direction from the nearest town or post	office*		1	2. County or Parish		13. State	
Approximately 13 milesl northwest	of Car	Isbad, NM		Eddy County		NM	
15. Distance from proposed*		16. No. of acres in lease	17. Spac	ing Unit dedicated to t	his well		
location to nearest			ļ				
property or lease line, ft.							
(Also to nearest drlg. unit line, if any) 660'				320 \			
18. Distance from proposed location*		19 Proposed Depth	20. BLM	/ BIA Bond No. on fil	e		
to nearest well, drilling, completed,		10750					
applied for, on this lease, ft. 2300'	<u> </u>	NATIONWIDE BO	_	IB000434			
21. Elevations (Show whether DF, KDB, RT, GL, etc)		22. Aproximate date work will	start*	23. Estimated dur	ration		
3883 GL		ASAP 45 days			S		
		24 Attachments					
The following, completed in accordance with the requirements of	Onshore	Oil and Gas Order No. 1 shall b	e attached	l to this form			
		1	_				
Well plat certified by a registered surveyor.		4 Bond to cover the o	operations	unless covered by exis	sting bon	d on file(see	
2. A Drilling Plan 2. A Symford Man Plan (if the languistics in an National Forest Synt	T	item 20 above).	·				
 A Surface Use Plan (if the location is on National Forest Systems SUPO must be filed with the appropriate Forest Service Office 		ds, the 5. Operator certificati 6. Such other site spe		mation and/or plane a	s may be	required by the	
got o mast be fined with the appropriate Forest pervice office	<i>-</i>)	BLM	entre intor	mation and of plans a	s may be	required by the	
25. Signature	Name (Printed/ Typed)		Date	******		
() Cra			Cy Cow	an		9/4/2007	
Title	L			<u> </u>			
Regulatory Agent							
Approved By (Signature)	Name (Printed/Typed) On Peter		Date		a to 2007	
/s/ Don Peterson		181 Don Peter	son		DE	C 1 9 2007	
Title FIELD MANAGER	Office				************		
TILLO MANAGLIA		CARLSBAD I	-IEL[OFFICE			
Application approval does not warrant or certify that the applicant	holds le	gal or equitable title to those rigi	hts in the	subject lease which wo	uld entit	le the applicant to c	
operations thereon.			A		TIME	VEADO	
Conditions of approval, if any, are attached.			A٢	PROVAL FOR	TVVC) YEARS	

Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and wilfully to make to any department or agency of the United

C-144 actached

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction * (Instructions on page 2)

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVALOSIGIFOFFORE GENERAL RECUREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

District I

1625 N. French Dr., Hobbs, NM 88240

<u>District II</u>

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rie Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Pe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name			
	81070	Undesignated Mc Iver Ran	nch Morrow		
Property Code	5 Pre	perty Name	Well Number		
	Koonunga Hill	1 2			
OGRID No.	*Ор	rator Name	Elevation		
025575	YATES PETRO	LEUM CORPORATION	3883'		
	10 C.	aca I ocation			

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	19	22S	25E		1914'	North	940'	West	Eddy
11 Pottom U-lo I costion ICD:Co F C									

	Bottom Hote Execution in Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
L	19	_22S	25E		1980'	South	660'	West	Eddy			
Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.												
320									¥			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16							17 OPERATOR CERTIFICATION 1 hereby cartify that the information contained herein is true and complete to
	. 1						the best of my knowledge and belief, and that this organization either owns a
	3						working interest or unleased nuneral interest in the land including the
ř	8			1			proposed bottom hole location or has a right to drill this well at this location
							pursuant to a contract with an owner of such a mineral or working interest,
i i	- 1	l				,	or to a volumesty populing agreement or a compulsory pooling order
							havery fare artiflet by the division.
					Project	Area	1 Ch Covar 14,8/06
	- 1	1			(1. 100.		Signature Date
944					`		G D
	<u></u> ф	ļ			.		<u>Ey Cowan, Regulatory Agent</u>
		ı			Roducing	AYEA	
					7		
							,
		ĺ					¹⁸ SURVEYOR CERTIFICATION
110							I hereby certify that the well location shown on this plat was
660	`						plotted from field notes of actual surveys made by me or
· ·	יי	- [under my supervision, and that the same is true and correct
		ı					to the best of my belief.
		1					
			4				REFER TO ORIGINAL PLAT.
		_					Date of Survey
l h		- {					Signature and Seal of Professional Surveyor.
Ä							1
Q							
							l de la companya de l
	1						Certificate Number
		- 1			_		A Manager of Lands

DISTRICT 1 1825 N. French Br., Hobbs, KM 88840

Bosrgy, Minerals and Natural Resources Department

State of New Mexico

Form C-162
Revined March 17, 1896
Instruction on back
Submit to Appropriate Entrict Office
State Lease - 4 Copies
For Lease - 3 Copies

DISTRICT II
511 South First, Artesia, NM 88210
DISTRICT III,
1000 Bio Bratos Rd., Astec, NM 87410
DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87605

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name					
		Undesignated Mc Iver Ranch	Morrow				
Property Code	Prop	Property Name					
	· KOONUNGA I	KOONUNGA HILL "BGX" FEDERAL					
OCTAD No.	Oper	Operator Name					
025575	YATES PETROL	3883					

Surface Location

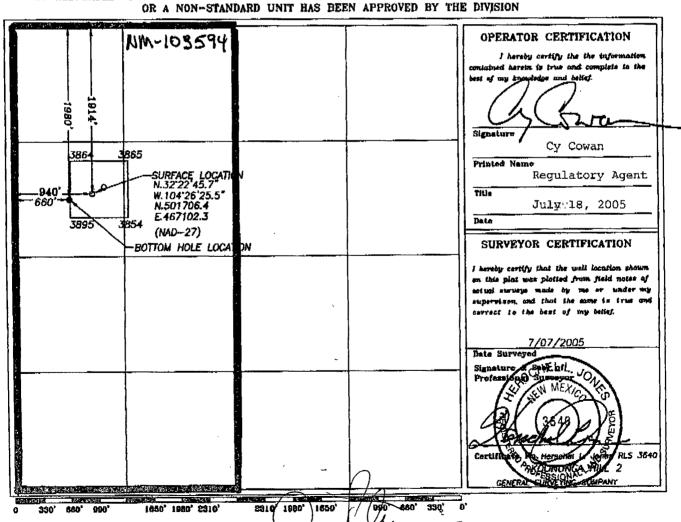
UL or lat No.	Section	Township	Range	Lot Idp	Feel from the	North/South line	Fact from the	East/West line	County
E	19	22S	25E		1914	NORTH	940	WEST	EDDY

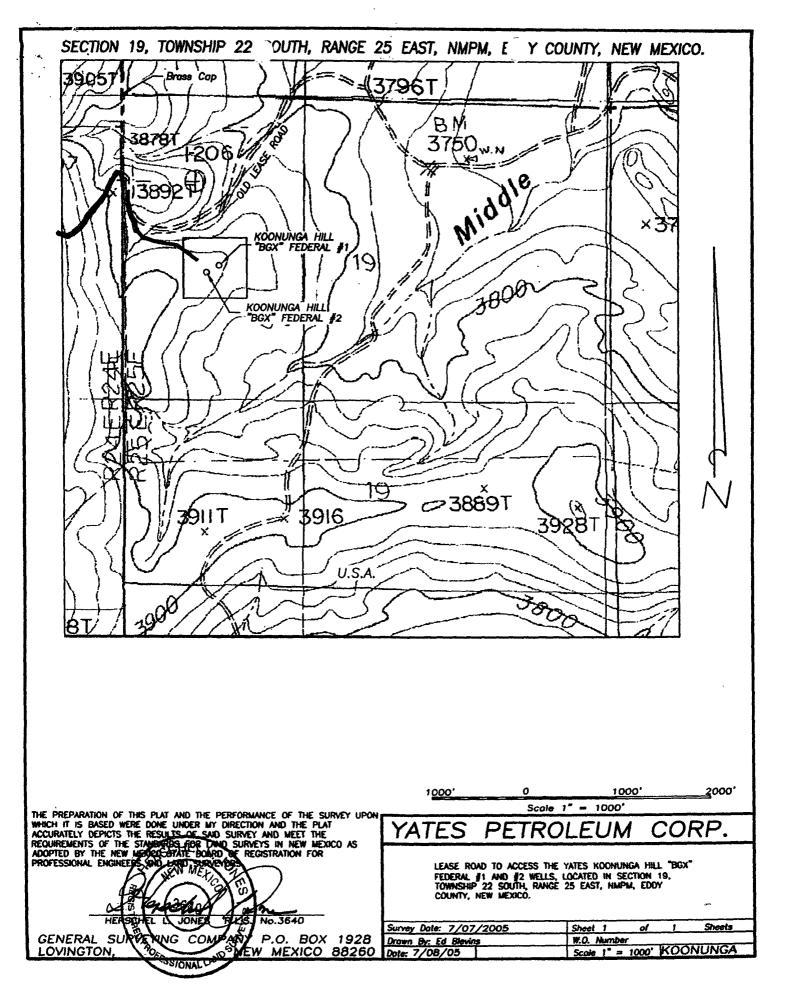
Bottom Hole Location If Different From Surface

UL or lot No.	Section 19	Township 22S	Runge 25E	lot ida	Feet from the 1980	North/South line	Feet from the 660	East/West line WEST	County EDDY
Dedicated Acres Joint or Infill C		neolidation	Code Ore	der No.			-		
320									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





YATES PETROLEUM CORPORATION Koonunga Hill BGX Federal #2

1914' FNL and 940' FWL Surface Location 1980' FSL and 660' FWL Bottom Hole Location Section 19-T22S-R25E Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

Capitan Cherry Canyon	585'-Oil Pay 1605'-Oil Pay	Base on Dolomite Strawn	9038'-Gas Pay 9358'-Gas Pay
Brushy Canyon	2335'-Oil Pay	Atoka	10148'-Gas Pay
Bone Spring Lime	4025'-Oil Pay	Upper Morrow	10553-Gas Pay
1st Bone Spring Sand	4442'-Oil Pay	Middle Morrow	10598'-Gas Pay
2 nd Bone Spring Sand	5502'-Oil Pay	Lower Morrow	10798'-Gas Pay
3 rd Bone Spring Sand	7598-Oil Pay	Base of Morrow	10888'-Gas Pay
Wolfcamp	7898-Oil Pay	MVD	11023'-Gas Pay
Cisco-Canyon Dolomite	8328'-Gas Pay		

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: 60'

Oil or Gas: All potential zones.

3. Pressure Control Equipment: BOPE will be installed on the 9 5/8" casing and rated for 5000 BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

4. THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Cas	ing Program: (A	All New)				
Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	<u>Interval</u>	<u>Length</u>
17 1/2"	13 3/8"	48#	H-40	ST+C	0-1500'	1500'
12 1/4"	9 5/8#	36#	J-55	ST+C	0-2700'	2700'
8 3/4"	7"	26#	HCP-(\O	LT+C	0-1900'	1900'
8 3/4"	7"	26#	L-80	LT+C	1900'-9200'	7300'
8 3/4"	7"	26#	HCP-116	LT+C	9200'-11023' MVD	1823'

If lost circulation is encountered in the Canyon Formation 7" casing will be set to approximately 9150'. Hole size will be reduced to 6 1/8" and 4 1/2" casing will be set to TD.

Yates Petroleum Corporation requests a variance to install a rotating head on the surface casing strings when intermediate casing will be set. If a BOP system is required then we wish to install a 2M system and receive a variance to test the system to 1000# using the rig pumps. The test will be held for 30 minutes on each system component. Components to be tested include pipe rams, blind rams, and annular preventer.

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Joint Strength 1.8

Koonunga Hill BGX Federal #2 Page 2

B. **CEMENTING PROGRAM:**

Surface casing: Lead with 900 sx "C" Lite (YLD 2.0 WT 12.5) Tail in with 200 sx "C" + 2%

CaCl2 (YLD 1.34 WT 2.0). Surface

Intermediate casing: Lead with 250 sx "H" + 1% CaCl2 (YLD 1.50 WT 14.6). Lead with 550 sx "C" Lite + 1% CaCl2 (YLD 1.96 WT 12.5). Tail with 200 sx "C" + 2%

CaCl2 (YLD 1.34 WT 14.8). Surface

Production casing: Stage I: Lead with 600 sx Super "C" Modified (YLD 1.60 WT 13.0). TOC 7800'

Production casing: Stage II: Lead with 1150 sx "C" Lite (YLD 1.95 WT12.5). Tail with

100 sx "H" (YLD 1.18 WT 15.6). TOC 7800' 🙈

peroperator

5. Mud Program and Auxiliary Equipment:

10-31-07 Viscosity Weight Fluid Loss Interval Type 0-2700 Air Mist /FW N/C 0 2700'-8328' Fresh Water 8.4 28 N/C 8328'-9573' Fresh Water 8.4-8.5 <20 33-35

9573'-10073' Cut Brine 9.4-9.5 3.4-3.6 N/C 10073'-11023' Salt Gel/Starch/4%-6% KCL 9.5-9.8 3.4-3.6 <12

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 10' samples from intermediate casing to TD.

Logging: Platform Express HRLA/NGT/FMI

Coring: None anticipated.

DST's: Possible from Wolfcamp to TD.

7. Abnormal Conditions, Bottom hole pressure and potential hazards:

Anticipated BHP:

From: To: 400' Anticipated Max. BHP 175 PSI. 0 400' From: To: 2700' Anticipated Max. BHP 1180 PSI. 2700' From: To: 10750' Anticipated Max. BHP 5475 PSI.

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: Possible Canyon.

H2S Zones Anticipated: Possible in Canyon.

Maximum Bottom Hole Temperature: 178 F.

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 30 days to drill the well with completion taking another 15 days.

Yates Petroleum Corporation

Jeremiah Mullen (jmullen@ypcnm com) (505)748-4378 105 S. Fourth Street Artesia, N M 88210

The following is the contingency casing design and cement program for the Koonunga Hill BGX Federal #2:

	Size	Wt. (#/ft.)	Grade	Depth	T&C
•	9 5/8"	36#	J-55	0'-2700'	ST&C

Lead with 250sx H (Yld 1.5 Wt. 14.6) and 550sx C-lite (Yld 1.96 Wt. 12.5#), tail with 225sx class C (Yld 1.33 Wt. 14.8). TOC= Circulated

•	7"	26#	L-80	0'-4700'	LT&C
	7"	26#	J-55	4700'-8700'	LT&C
	7"	26#	L-80	8700'-9150'	LT&C

Packer stage tool set @ 8300'. Stage 1: Cement with 175sx C (Yld 1.64 Wt. 13.2) Stage 2: Lead with 750sx C Lite (Yld 2.0 Wt. 12.5), tail with 225sx class C (Yld 1.67 Wt. 13.2). TOC= 2200'

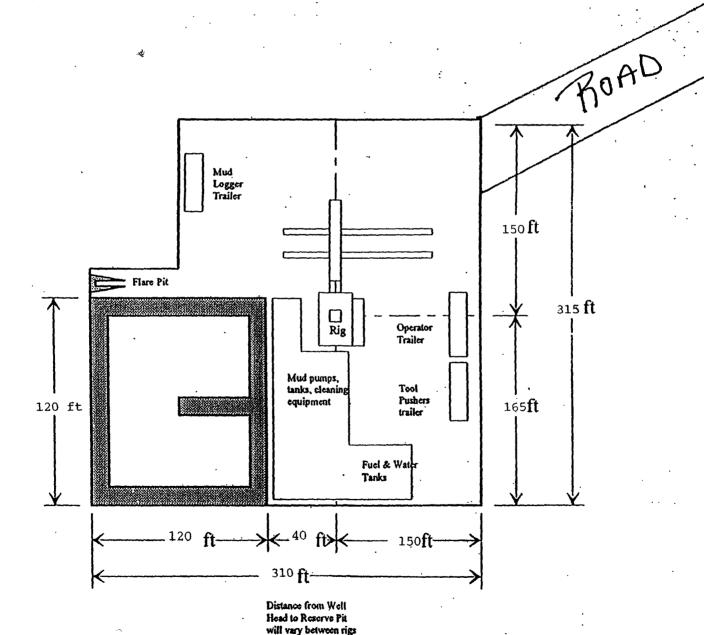
• 4 1/2" liner 11.6# HCP-110 8850'-11,023' LT&C

Cement with 275sx Super C (Yld 1.6 Wt. 13). TOC=8850'

Yates Petroleum Corporation Location Layout for Permian Basin

Up to 12,000'

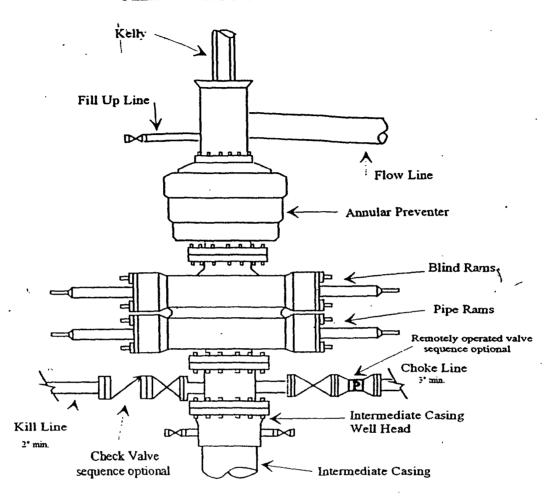
Yates Petroleum Corporation Koonunga Hill BGX Federal #2 1914' FNL and 940' FWL SHL 1980' FNL and 660' FWL BHL q-5-07 om Section 19 T22S-R25E Eddy County, New Mexico



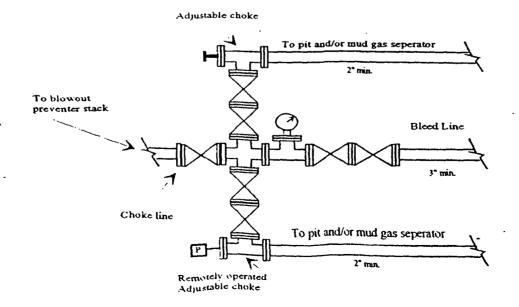
The above dimension should be a maximum

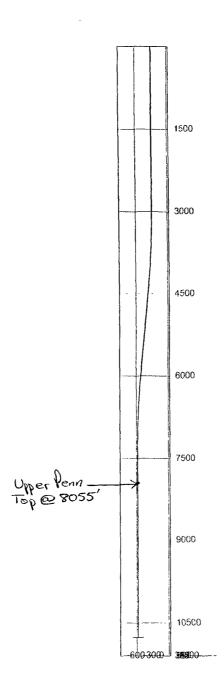
Yates Petroleum Corporation

Typical 5,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



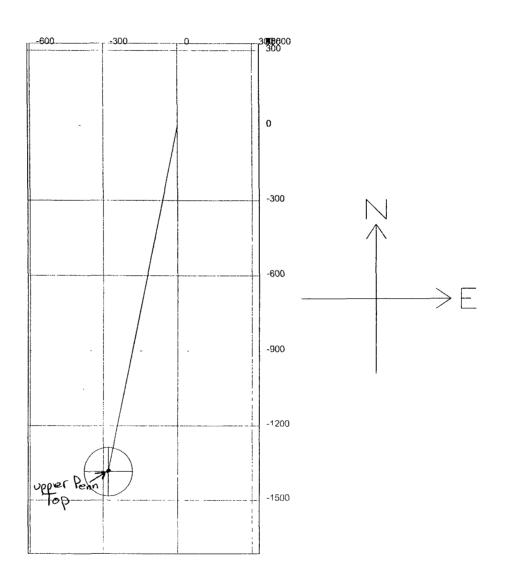
Typical 5,000 psi choke manifold assembly with at least these minimun features





3₺ ⊸rectional Drilling Planner - 3D View

Company: Technical Toolboxes Inc.
Well: Koonunga Hill BGX Federal #2



	M.D. [ft]	Inclination [°]	Azimuth [°]	T.V.D. [ft]	N+/S- [ft]	E+/W- [ft]	D.L.S. [°/100ft]	ToolFace [°]	T.F. Ref. [HS/GN]
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	3000.00	0.00	0.00	3000.00	0.00	0.00	2.00	191	GN
3	3025.00	0.50	191.42	3025.00	-0.11	-0.02	2.00	360	HS
4	3050.00	1.00	191.42	3050.00	-0.43	-0.09	2.00	360	HS
5	3075.00	1.50	191.42	3074.99	-0.96	-0.19	2.00	360	HS
6	3100.00	2.00	191.42	3099.98	-1.71	-0.35	2.00	360	HS
7	3125.00	2.50	191.42	3124.96	-2.67	-0.54	2.00	0	HS
8	3150.00	3.00	191.42	3149.93	-3.85	-0.78	2.00	0	HS
9	3175.00	3.50	191.42	3174.89	-5.24	-1.06	2.00	0	HS
10	3200.00	4.00	191.42	3199.84	-6.84	-1.38	2.00	360	HS
11	3225.00	4.50	191.42	3224.77	-8.66	-1.75	2.00	360	HS
12	3250.00	5.00	191.42	3249.68	-10.69	-2.16	2.00	360	HS
13	3275.00	5.50	191.42	3274.58	-12.93	-2.61	2.00	360	HS
14	3300.00	6.00	191.42	3299.45	-15.38	-3.11	2.00	360	HS
15	3325.00	6.50	191.42	3324.30	-18.05	-3.65	2.00	0	HS
16	3350.00	7.00	191.42	3349.13	-20.93	-4.23	2.00	0	HS
17	3375.00	7.50	191.42	3373.93	-24.02	-4.85	2.00	360	HS
18	3400.00	8.00	191.42	3398.70	-27.33	-5.52	2.00	0	HS
19	3425.00	8.50	191.42	3423.44	-30.84	-6.23	2.00	0	HS
20	3450.00	9.00	191.42	3448.15	-34.57	-6.98	2.00	0	HS
21	3475.00	9.50	191.42	3472.83	-38.51	<i>-</i> 7.78	2.00	0	HS
22	3500.00	10.00	191.42	3497.47	-42.66	-8.62	2.00	0	HS
23	3525.00	10.50	191.42	3522.07	-47.02	- 9.50	2.00	0	HS
24	3550.00	11.00	191.42	3546.63	-51.59	-10.42	2.00	0	HS
25	3575.00	11.50	191.42	3571.15	-56.37	-11.39	2.00	0	HS
26	3600.00	12.00	191.42	3595.62	-61.36	-12.40	2.00	360	HS
27	3625.00	12.50	191.42	3620.05	-66.56	-13.45	2.00	0	HS
28	3650.00	13.00	191.42	3644.44	-71.97	-14.54	2.00	0	HS
29	3675.00	13.50	191.42	3668.77	-77.59	-15.67	2.00	360	HS
30	3700.00	14.00	191.42	3693.06	-83.41	-16.85	2.00	0	HS
31	3725.00	14.50	191.42	3717.29	-89.44	-18.07	2.00	0	HS
32	3750.00	15.00	191.42	3741.46	-95.68	-19.33	2.00	360	HS
33	3775.00	15.50	191.42	3765.58	-102.13	-20.63	2.00	0	HS
34	3800.00	16.00	191.42	3789.64	-108.78	-21.98	2.00	360	HS
35	3825.00	16.50	191.42	3813.64	-115.64	-23.36	2.00	360	HS
36	3850.00	17.00	191.42	3837.58	-122.70	-24.79	2.00	360	HS

		M.D. [ft]	Inclination [°]	Azimuth [°]	T.V.D. [ft]	N+/S- [ft]	E+/W- [ft]	D.L.S. [°/100ft]	ToolFace [°]	T.F. Ref. [HS/GN]
	37	3875.00	17.50	191.42	3861.46	-129.97	-26.26	2.00	360	HS
	38	3900.00	18.00	191.42	3885.27	-137.44	-27.76	2.00	0	HS
	39	3925.00	18.50	191.42	3909.01	-145.11	-29.32	2.00	0	HS
	40	3950.00	19.00	191.42	3932.68	-152.99	-30.91	2.00	0	HS
	41	3975.00	19.50	191.42	3956.29	-161.07	-32.54	2.00	0	HS
	42	4000.00	20.00	191.42	3979.82	-169.35	-34.21	2.00	0	HS
	43	4025.00	20.50	191.42	4003.27	-177.83	-35.92	2.00	360	HS
- [44	4050.00	21.00	191.42	4026.65	-186.51	-37.68	2.00	0	HS
	45	4075.00	21.50	191.42	4049.95	-195.39	-39.47	2.00	360	HS
	46	4100.00	22.00	191.42	4073.17	-204.47	-41.31	2.00	360	HS
ļ	47	4125.00	22.50	191.42	4096.31	-213.75	-43.18	2.00	360	HS
Į	48	4150.00	23.00	191.42	4119.36	-223.23	-45.10	2.00	0	HS
ļ	49	4175.00	23.50	191.42	4142.33	-232.90	-47.05	2.00	0	HS
	50	4200.00	24.00	191.42	4165.22	-242.77	-49.04	2.00	0	HS
ļ	51	4225.00	24.50	191.42	4188.01	-252.83	-51.08	2.00	360	HS
	52	4250.00	25.00	191.42	4210.71	-263.09	-53.15	2.00	0	HS
Į	53	4251.46	25.03	191.42	4212.04	-263.70	-53.27	0.00		
- 1	54	6321.79	25.03	191.42	6087.95	-1122.27	-226.72	0.00		
1	55	6325.00	24.97	191.42	6090.85	-1123.62	-226.99	2.00	180	HS
- [56	6350.00	24.47	191.42	6113.56	-1133.86	-229.06	2.00	180	HS
ı	57	6375.00	23.97	191.42	6136.36	-1143.91	-231.09	2.00	180	HS
	58	6400.00	23.47	191.42	6159.24	-1153.77	-233.08	2.00	180	HS
	59	6425.00	22.97	191.42	6182.22	-1163.43	-235.04	2.00	180	HS
Į	60	6450.00	22.46	191.42	6205.28	-1172.89	-236.95	2.00	180	HS
	61	6475.00	21.96	191.42	6228.43	-1182.16	-238.82	2.00	180	HS
١	62	6500.00	21.46	191.42	6251.65	-1191.22	-240.65	2.00	180	HS
	63	6525.00	20.96	191.42	6274.96	-1200.09	-242.44	2.00	180	HS
l	64	6550.00	20.46	191.42	6298.34	-1208.76	-244.19	2.00	180	HS
Į	65	6575.00	19.96	191.42	6321.80	-1217.23	-245.90	2.00	180	HS
	66	6600.00	19.46	191.42	6345.33	-1225.49	-247.57	2.00	180	HS
	67	6625.00	18.96	191.42	6368.94	-1233.56	-249.20	2.00	180	HS
	68	6650.00	18.46	191.42	6392.62	-1241.42	-250.79	2.00	180	HS
. [69	6675.00	17.96	191.42	6416.37	-1249.08	-252.34	2.00	180	HS
ı	70	6700.00	17.46	191.42	6440.18	-1256.54	-253.85	2.00	180	HS
	71	6725.00	16.96	191.42	6464.06	-1263.79	-255.31	2.00	180	HS
	72	6750.00	16.46	191.42	6488.01	-1270.84	-256.73	2.00	180	HS

	M.D. [ft]	Inclination [°]	Azimuth [°]	T.V.D. [ft]	N+/S- [ft]	E+/W- [ft]	D.L.S. [°/100ft]	ToolFace [°]	T.F. Ref. [HS/GN]
7:	3 6775.00	15.96	191.42	6512.01	-1277.68	-258.12	2.00	180	HS
74	4 6800.00	15.46	191.42	6536.08	-1284.32	-259.46	2.00	180	HS
7	5 6825.00	14.96	191.42	6560.20	-1290.75	-260.76	2.00	180	HS
_ 70	6850.00	14.46	191.42	6584.38	-1296.97	-262.01	2.00	180	HS
7	7 6875.00	13.96	191.42	6608.61	-1302.99	-263.23	2.00	180	HS
78		13.46	191.42	6632.90	-1308.80	-264.40	2.00	180	HS
79	9 6925.00	12.96	191.42	6657.24	-1314.40	-265.54	2.00	180	HS
80	6950.00	12.46	191.42	6681.63	-1319.80	-266.63	2.00	180	HS
8	1 6975.00	11.96	191.42	6706.06	-1324.98	-267.67	2.00	180	HS
8:	2 7000.00	11.46	191.42	6730.54	-1329.96	-268.68	2.00	180	HS
8:	3 7025.00	10.96	191.42	6755.06	-1334.72	-269.64	2.00	180	HS
84	4 7050.00	10.46	191.42	6779.63	-1339.28	-270.56	2.00	180	HS
8	5 7075.00	9.96	191.42	6804.23	-1343.63	-271.44	2.00	180	HS
86	7100.00	9.46	191.42	6828.87	-1347.76	-272.27	2.00	180	HS
8	7 7125.00	8.96	191.42	6853.55	-1351.68	-273.07	2.00	180	HS
88	7150.00	8.46	191.42	6878.26	-1355.40	-273.82	2.00	180	HS
89	9 7175.00	7.96	191.42	6903.00	-1358.90	-274.53	2.00	180	HS
90	7200.00	7.46	191.42	6927.78	-1362.19	-275.19	2.00	180	HS
9	7225.00	6.96	191.42	6952.58	-1365.27	-275.81	2.00	180	HS
9:	2 7250.00	6.46	191.42	6977.41	-1368.13	-276.39	2.00	180	HS
9:		5.96	191.42	7002.26	-1370.78	-276.93	2.00	180	HS
94		5.46	191.42	7027.14	-1373.22	-277.42	2.00	180	HS
9:	5 7325.00	4.96	191.42	7052.03	-1375.45	-277.87	2.00	180	HS
96	3 7350.00	4.46	191.42	7076.95	-1377.47	-278.28	2.00	180	HS
9	7 7375.00	3.96	191.42	7101.88	-1379.27	-278.64	2.00	180	HS
98		3.46	191.42	7126.83	-1380.86	-278.96	2.00	180	HS
99	7425.00	2.96	191.42	7151.79	-1382.23	-279.24	2.00	180	HS
10		2.46	191.42	7176.76	-1383.39	-279.47	2.00	180	HS
10		1.96	191.42	7201.74	-1384.34	-279.66	2.00	180	HS
10		1.46	191.42	7226.73	-1385.07	-279.81	2.00	180	HS
10		0.95	191.42	7251.73	-1385.59	-279.92	2.00	180	HS
10		0.44	191.42	7276.72	-1385.90	-279.98	2.00	180	HS
10		0.00	11.31	7300.01	-1385.99	-280.00	2.00	11	GN
10	6 11023.28	0.00	180.00	10750.00	-1386.00	-280.00	0.00		

Yates Petroleum Corporation

105 S. Fourth Street Artesia, NM 88210

Hydrogen Sulfide (H₂S) Contingency Plan

For

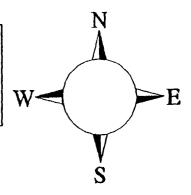
Koonunga Hill BGX Federal 2

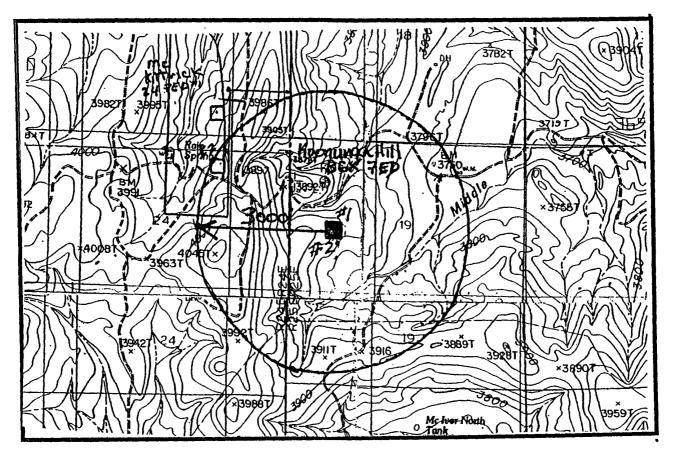
1914' FNL and 940' FWL Surface Location
1980' FNL and 660' FWL Bottom Hole Location

per operator 5
Section-19, T-22S, R-25E
Eddy County NM

Koonunga Hill BGX Federal #2 Location

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.







Emergency Procedures

In the case of a release of gas containing H₂S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H_2S , measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H_2S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries during the response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentr- ation
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

YPC personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. YPC Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Yates Petroleum Corporation Phone Numbers

YPC Office	(505) 748-1471
Pinson McWhorter/Operations Manager	
	(505) 748-4204
Ron Beasley/Prod Superintendent	(505) 748-4210
Al Springer/Drilling	
Paul Hanes/Prod. Foreman/Roswell	
Jim Krogman/Drilling Superintendent	(505) 748-4215
Artesia Answering Service	(505) 748-4302
(During non-office hours)	(303) 140-4302
Agency Call List	
Eddy County (505)	
Artesia	
State Police	746-2703
City Police	
Sheriff's Office	
Ambulance	
Fire Department	
LEPC (Local Emergency Planning Committee)	
NMOCD	
Carlsbad	
State Police	885-3137
City Police.	
Sheriff's Office	
Ambulance	
Fire Department	
LEPC (Local Emergency Planning Committee)	
US Bureau of Land Management	
Ob Bureau of Dana Managomont	007 0544
New Mexico Emergency Response Commission (Santa Fe)	(505)476-9600
24 HR	(505) 827-9126
New Mexico State Emergency Operations Center	(505) 476-9635
National Emergency Response Center (Washington, DC)	(800) 424-8802
Other	
Boots & Coots IWC1-800-256-9688 or (281) 931-8884	
Cudd Pressure Control(915) 699-0139 or (915) 563-3356	
Halliburton(505) 746-2757	
B. J. Services(505) 746-2757	
D. J. BOLV1008(JUU) /40-3JUZ	
Flight For Life -4000 24th St, Lubbock, TX(806) 743-9911
Aerocare -Rr 3 Box 49f, Lubbock, TX	
ACTOCATE -KI O DOX 491, LUDUOCK, LA	(000) 141-0343

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Yates Petroleum Corporation Koonunga Hill BGX Federal #2

1914' FNL and 940' FWL Surface Location 1980' FSL and 660' FWL Bottom Hole Location Section 19-T22S-R25E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 13 miles southwest of Carlsbad, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go north of Carlsbad on Highway 285 for approximately 9.5 miles to Waterhole Road. Turn right on Waterhole Road and go approximately 9.2 miles. Turn left here and follow lease road for approximately .8 of a mile to Nearburg's McKittrick 24 Federal #1 well. Continue south past the #1 well going south to the McKittrick 24 Federal #2. From the northeast corner of the #2 well pad a new portion of road will be built going south for approximately 400 feet to an old two track road. Turn left here on the two track and go approximately .2 of a mile to a cattle guard. Cross cattleguard and follow two track road for approximately .1 of a mile. The new road will start here going southeast up the hill to the northwest corner of the proposed well pad.

2. PLANNED ACCESS ROAD

The new access road will be approximately .1 of a mile in length from the point of origin to the northwest corner of the well pad.

3. LOCATION OF EXISTING WELL

- A. There is drilling activity within a one-mile radius of the wellsite.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.

LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

Koonunga Hill BGX Federal #2 Page 2

6. SOURCE OF CONSTRUCTION MATERIALS:

The dirt contractor will locate closest pit and will obtain any permits and materials for needed for construction.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.

8. ANCILLARY FACILITIES: None

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined. Yates Petroleum Corporation is in full compliance with the OCD General Plan for Drilling Pits approved on April 15, 2004.
- C. A 600' x 600' area has been staked and flagged.

10. PLANS FOR RESTORATION

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level after they have evaporated and dried.
- 11. SURFACE OWNERSHIP: Federal surface, Administered by the Bureau of Land Management, Carlsbad, New Mexico.

12. OTHER INFORMATION:

- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- B. The primary surface use is for grazing.

Koonunga Hill BGX Federal #2 Page 3

13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval:

Cy Cowan, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 B. Through Drilling Operations, Completions and Production:

Pinson Mc Whorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

CERTIFICATION YATES PETROLEUM CORPORATION Koonunga Hill BGX Federal #2

I hereby certify that I, or someone under my direct supervision, have 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 29th day of August, 2007					
Printed Name Cy Cowan					
Signature					
Position Title Regulatory Agent					
Address_105 South Fourth Street, Artesia, NM 88210					
Telephone (505) 748-4372					
Field Representative (if not above signatory) Jim Krogman					
Address (if different from above) Same					
Telephone (if different from above) 505-748-4215					
E-mail (optional) cy@ypcnm.com					

V. SPECIAL REQUIREMENT(S)

Cave & Karst

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Berming:

Any tank batteries will be constructed and bermed large enough to contain any spills that may occur.

Bermed areas will be lined with rip-stop padding to prevent tears or punctures in liners and lined with a permanent 20 mil plastic liner.

Closed Mud System with a Drying Area or Buried Cuttings Pit:

All fluids will be in steel tanks and hauled off. A 70X100 foot cuttings pit or a 150X100 foot drying area will be utilized for this location. The cuttings pit or drying area will be lined with 4 oz. felt and a layer of 20 mil. plastic. Upon completion of the well all excess fluids will be vacuumed off the cuttings pit and allowed to dry. The liner could then be folded over washed cuttings, covered with a 20 mil plastic cover and then covered with at least three feet of top soil.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Rotary drilling techniques in cave or karst areas will include the use of fresh water as a circulating medium in zones where caves or karst features are expected. Use depth to the deepest expected fresh water as listed in the geologist report.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone as identified in the geologic report.

Casing:

All casing will meet or exceed National Association of Corrosion Engineers specifications pertaining to the geology of the location and be run to American Petroleum Institute and BLM standards.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported.

Regardless of the type of drilling machinery used, if a void (bit drops) of four feet or more and circulation losses greater then 75 percent occur simultaneously while drilling in any cave-bearing zone, drilling operations will immediately stop and the BLM will be notified by the operator. The BLM will assess the consequences of the situation and work with operator on corrective actions to resolve the problem.

Delayed Blasting:

Any blasting will be a phased and time delayed.

Abandonment Cementing:

Upon well abandonment the well bore will be cemented completely from 100 feet below the bottom of the cave bearing zone to the surface.

Record Keeping:

The Operator will track customary drilling activities, including the rate of penetration, pump pressure, weight on bit, bit drops, percent of mud returns, and presence of absence of cuttings returning to the surface. As part of customary record keeping, each detectable void or sudden increase in the rate of penetration not attributable to a change in the formation type should be documented and evaluated as it is encountered.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 2 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard especially in the Canyon formation.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1500 feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.

High cave/karst.

Possible lost circulation in the Capitan Reef, Delaware and Bone Spring formations. Possible high pressure gas bursts in the Wolfcamp and over pressure in the Pennsylvanian section, especially the lower sand of the Atoka formation.

Approved for fresh water mud/air mist, but not air drilling.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a-d above.
- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement to surface **due to cave concerns**. If cement does not circulate, contact the appropriate BLM office.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner (contingency casing) is:
 - 🔀 Cement to top of liner. Operator shall provide method of verification.
- 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8" intermediate casing shoe shall be 5000 (5M) psi.

- 4. The appropriate BLM office shall be notified a minimum of 2 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
 - f. A variance to test the surface casing and BOP/BOPE to the reduced pressure of 1000 psi with the rig pumps is approved.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

Engineer on call phone (after hours): Carlsbad: (575) 706-2779

WWI 111307