	DEPARTMEN	T OF THE INT	TEDIAD	side)	Expires: February 28, 1995
		LAND MANAGE	e (1) to		5. 10 SE DEBIGNATION AND BERIAL NO. NM-81622
			ILL OR DEEPEN	Aven	INT OTOZZ
APPI	LICATION FOR P	ERMIT TO DH	Anesia, WM	8891 6	
	RILL 🖾			28210	7. UNIT AGREEMENT NAME
b. TIPE OF WELL OIL	GAS T	. —	EGIRCET ARY'S PL	HZAT	301067
WILL X	WILL OTHER	10	ZONE ZONE ZONE		8. FARM OR LEASE NAME, WELL NO.
COG OPERATIN	IG, LLC. 22913]	(GREG WILKES	432-685-4341)		GOLD RUSH "30" FED. # 8 C
3. ADDRESS AND TELEPHONE N	AS AVENUE SUITE	1300 MIDLAND,	TEXAS 79701		30 - 015 - 34254
4. LOCATION OF WELL (At surface	Report location clearly and	in accordance with a	ny State requirements.*) U	7545	NASH DRAW-BRUTHY CANNON
2310' FEL &	2630' FSL SECTIO	N 30 T23S-R30	E EDDY CO. FRECE		11. BEC., T., E., M., OF BLK. AND BURYEY OR AREA
Åt proposed prod. z			FEB 1		SECTION 30 T23S-R30E
	AND DIRECTION FROM NEAD	• •	OGD.4F	TERIA	12. COUNTY OR PARISH 13. STATE
	ly 15 miles East		Mexico	l	EDDY CO. NEW MEXICO
13. DISTANCE FROM PRO LOCATION TO NEARE PROPERTY OR LEASE (Also to perfert du	ST '	2310'	NO. OF ACRES IN LEASE		ACEES ASSIGNED
13. DISTANCE FROM FRO			. PROPOSED DEPTH		T OR CABLE TOOLS
OR APPLIED FOR. ON T	HIS LEASE, FT.	660'	7450'	RO	TARY
21. ELEVATIONS (Show w	rhether DF. RT. GR. etc.)	3096' GR			22. APPROX. DATE WORK WILL START' WHEN APPROVED
23.		PROPOSED CASING	AND CEMENTING PROGRA	.M	
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
25"	Conductor	NA	40'	Cement	to surfacewith Redi-mix
ITNESS 17 ¹ / ₂ "	H-40 13 3/8"	48	650'	750 Sx	. Circulate cement to su
<u>12¹/</u> "	J-55 8 5/8"	32		<u>1150 S</u>	
7 7/8"	J-55 5 ¹ 2"	15.5	7450'	1000 S	x
500 Sx. of + 2% CaCl, 3. Drill 12½" with 925 S + ½# Floce 4. Drill 7 7/ with 700 S Class "H" COG OPERAT	Class "C" Halco- ½# Flocele/Sx hole to 3100'. H x. of Class "C" H le/Sx. + 2% CaCl 8" hole to 7450' x. of Class "H" H Premium Plus ceme ING, LLC. ACCEPTS HEE PROPOSED PROGRAM: IS	Light + addit Circulate co Run and set 3 Halco Light + circulate co Run and set Halco Light co ent + additive THE RESPONS	tives, tail in wire ement to surface. 100' of 8 5/8" 32 additives, tail ement to surface. 7450' of 5½" 15. ement + additives es, Circulate cem INGLITY FOR THE OF	th 200 S # J-55 S in with 5# J-55 , tail i ent to s PERATION	OF THIS LEASE.
deepen directionally, give pertinent data on subsurface locations and measured and rue vertical deptira. Uve blowout preventer program, UAX, TO					
STENED FORT. COLUCIO TITLE Agente CENERAL REQUIREMENTS AND SPECIAL STIPULATIONS					
(This space for Federal or State office use) ATTACHED					
PERMIT NO.			APPROVAL DATE		
Application approval does	a not warrant or certify that the app AL. IF ANY:	licant holds legal or equitab	ile title to those rights in the subject	lense which wo	uld entitle the applicant to conduct operations thereo
	inda S. C. Rundel	-	STATE DIRECT	Ľ	FEB - 8 2005
APPROVED BY		TITLE			
		*See Instructio	ns On Reverse Side	APPR	OVAL FOR 1 YEAR

-

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

NM 88241-1980

ст п rawer DD. Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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			
		47545 NASH DRAW-P			NASH DRAW-P				
Property	Code	Property Name Well Nu				Well Nun	aber		
GOLD			GOLD RUSH "30" FEDERAL 8						
OGRID N	0.	Operator Name Elevation							
229137	,	COG OPERATING, LLC.			IG, LLC. 3096				
Surface Location									
UL or lot No.	Section	Township	Range .	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	30	23 S	30 E		2630	SOUTH	2310	EAST	EDDY

S	30 E	2630	SOUTH	2310	EAST

Bottom Hole Location If 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
Dedicated Acres 40	Joint of	Infill Co	nsolidation (Code Or	der No.	I		· .	

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

r		
LOT 1 41.09 AC.		OPERATOR CERTIFICATION
		I hereby certify the the information
		contained herein is true and complete to the
		best of my knowledge and belief.
		Jerel Janica
		Signature
LOT 2 41.21 AC.		Joe T. Janica
		Printed Name
		Agent
		Title
		01/07/05
1		Date
	3099.1' 3082.5'	
		SURVEYOR CERTIFICATION
 _		310'
LOT 3 41.13 AC.		I hereby certify that the well location shown
	309 .4' 3081.3'	on this plat was plotted from field notes of
	303.4	actual surveys made by me or under my
		supervison and that the same is true and
		correct to the best of my belief.
		FEBRUARY 2, 1998
		Date Surveyed
╎┢╺╾╺╾╶╾╺╾╶╾╶╴	╶╶╴╴╴╴╴╴╀╼╾┽┲╍╼╼╼╼╡╴╌	Signature # Seal of
LOT 4 41.22 AC.	ó	Professional Surveyor
	26.30	A CALL ON THE
		Konold -2-04.98
		/ W.Q. Num. 98-11-0179
		Certificate No. RONALD J. EDSON. 3239
		GARY G. EDSON, 12841
		MACON MEDONALD, 12185

APPLICATION TO DRILL

COG OPERATING, LLC. GOLD RUSH "30" FEDERAL # 8 UNIT "J" SECTION 30 T23S-R30E EDDY CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

- 1. Location of well: 2310' FEL & 2630' FSL SECTION 30 T23S-R30E EDDY CO. NM
- 2. Ground Elevation above Sea Level: 3096' GR.
- 3. Geological age of surface formation: Quaternary Deposits:
- 4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium to remove solids from hole.
- 5. Proposed drilling depth: 7450'
- 6. Estimated tops of geological markers:

Lamar	3290'	Brushy Canyon	6350!
Bell Canyon	4280'	Bone Spring	7080 '
Cherry Canyon	5780'	Avalon Sand	7190'

7. Possible mineral bearing formations:

Brushy Canyon	Oil
Bone Spring	Oil
Avalon Sand	Oil

8. Casing Program:

Hole Size	Interval	OD of Casing	- Weight	Thread	Collar	Grade
25"	0-40'	20"	NA	NA	NA	Conductor
17 ¹ 2''	0-650'	13 3/8"	54.5	8-R	ST&C	J-55
12½''	0-3100'	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-7450'	5½''	15.5	8-R	LT&C	J-55

APPLICATION TO DRILL

COG OPERATING, LLC. GOLD RUSH "30" FEDERAL # 8 UNIT "J" SECTION 30 T23S-R30E EDDY CO. NM

9. CASING CEMENTING & SETTING DEPTH:

20''	Conductor	Set 40' of 20" conductor pipe and cement to surface Redi-mix.
13 3/8"	Surface	Set 650' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 500 Sx. of Halco Light + additives, tail in with 250 Sx. of Class "C" + 2% CaCl, + ½# Flocele/Sx. Circulate cement.
8 5/8"	Intermediate	Set 3100' of 8 5/8" $32\#$ J-55 ST&C casing. CEment with 925 Sx. of Halco Light + additives, tail in with 250 Sx. of Class "C" cement + 2% CaCl, + $\frac{1}{2}\#$ Flocele/Sx. circulate cement to surface.
5½"	Production	Set 7450' of 5½" 15.5# J-55 LT&C Casing. Cement with 700 Sx. of Halco Light cement + additives, tail in with300 Sx. of Class "H" Modified + additives, circulate cement to surface.

- 10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 series 3000 PSI working perssure B.O.P. consisting of an annular bag type preventor, middle blind rams, and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once each 24 Hr. period and the blind rams will be operated when the drill pipe is out of on trips. Full opening stabbing valve and upper kelly cock will be available in case if needed. Exhibit "E-1" shows a hydraulically operated closing unit and a 3" 3000 PSI choke manifold with adjustable chokes. No abnormal pressures or temperatures are expected while drilling this well. No problems in offset wells.
- 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-650'	8.4-8.7	29-34	NC	Fresh water use paper to control seepage.
650-3100'	10.0-10.2	29-38	NC	Brine water add paper to control seepage & High viscosity sweeps to clean hole.
3100-6900'	8.4-8.7	29-38	NC	Fresh water use Gel for for high viscosity sweeps to clean hole.
6900-7450'	8.4-8.7	34-40	10 cc or less	Same as above add a Poly- to reduce water loss and Gel for viscosity use high viscosity sweeps to clean hole.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing, viscosity, and water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

COG OPERATING, LLC. GOLD RUSH "30" FEDERAL # 8 UNIT "J" SECTION 30 T23S-R30E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Induction, CNL, LDT, Gamma Ray and CAliper from TD back to 3100'.
- B. Run Gamma Ray, CNL from 3100' back to surface.
- C. Mud logger will be placed on hole at 3100' and remain on hole to TD.
- D. No DST's or core's are planed at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H^2S in this area. If H^2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3800 PSI, and Estimated BHT 150°

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take <u>22</u> days. If production casing is run then an additional <u>30</u> days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The <u>BRUSHY CANYON</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H₂S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
 - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
 - A. See exhibit "E" & "E-1"

6. Communication

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If the location is near to a dwelling a closed DST will be performed.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H₂S scavengers if necessary.

SURFACE USE PLAN

COG OPERATING, LLC. GOLD RUSH "30" FEDERAL # 8 UNIT "J" SECTION 30 T23S-R30E EDDY CO. NM

- 1. EXISTING AND PROPOSED ROADS: Area maps: Exhibit "B" is a reproduction of a County General Hi-way map showing access roads to the location. Exhibit "C" is a reproductio of a USGS Topographic map showing existing roads in close proximity to the location and the proposed access roads. All existing roads will be maintained in a condition equal to or better than their current conditions. All new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the location of the proposed well site as staked.
 - B. From Hobbs, New Mexico take U.S. Hi-way 62-180 toward Carlsbad New Mexic go 40t miles to WIPP Road, turn Left go 13 miles to CR-802, turn Right go 4.6 miles to State Hi-way 128 turn Right go 6 miles to Rawhide Road, turn Left go 4 miles, turn Left go .4 miles, turn Left go .4 miles, turn Southeast follow road .45 miles, turn Southwest go to well # 2, turn Northwest and follow road to location.
 - C. Lay flowlines and construct powerlines along road as shown on Exhibits "C" and "F"
- 2. PLANNED ACCESS ROADS: Approximately 1500' of new road will be constructed.
 - A. The access road will be crowned and ditched to a 12' wide traveled surface with a 40' Right-Of-Way.
 - B. Gradient on all roads will be less than 5% if possible.
 - C. Turn-outs will be constructed where necessary.
 - D. If needed roads will be surfaced to the BLM requirements with material obtained from a local source.
 - E. Center line of new road will be flagged.
 - F. The new road will be constructed to utilize low water crossings where drainage currently exists, and culverts will be installed where necessary.

3. EXHIBIT "A-1" SHOWS THE BELOW LISTED TYPE WELLS WITHIN A 1 MILE RADIUS:

A. Water wells	- None known
B. Disposal wells	- One known approximately3000' Northeast.
C. Drilling wells	- None known
D. Producing wells	- As shown on Exhibit "A-1"
E. Abandoned wells	- As shown on exhibit "A-1"

Page 4



- ↔ Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas
- Remote BOP Closing Unit
- Sign and Condition Flags

EXHIBIT RIG LAY O	
COG OPERATI GOLD RUSH "30" UNIT "J" T23S-R30E	



ARRANGEMENT SRRA

900 Series 3000 PSI WP

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EXHIBIT "E" SKETCH OF B.O.P. TO BE USED ON

COG OPERATING, LLC. GOLD RUSH "30" FEDERAL # 8 UNIT "J" SECTION 30 T23S-R30E EDDY CO. NM





