Form 3160-5 (August 2007)

OCD-ARTESIA

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

SUNDRY	l Nu	NMLC028731B					
Do not use th abandoned we	6. If I	ndian, Allottee	or Tribe Name				
SUBMIT IN TRI	PLICATE - Other instru	ıctions on rev	erse side.	7. If U	Jnit or CA/Agre	eement, Name and/or No.	
1. Type of Well		I Name and No					
2. Name of Operator		KELLY J HO			I Well No.		
COG OPERATING LLC	E-Mail: kholly@c	oncho.com	LL Y ,		-015-39904		
3a. Address 550 WEST TEXAS AVENUE MIDLAND, TX 79707	SUITE 100	3b. Phone No Ph: 432-68	. (include area code 5-4384	10. Fi	eld and Pool, o DDD; GLORI	r Exploratory ETA-UPPER YESO	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	n)		11. C	ounty or Parish,	, and State	
Sec 10 T17S R29E Mer NMP	SWSE 1100FSL 2370F	EL		EC	DY COUNT	Y, NM	
12. CHECK APPI	ROPRIATE BOX(ES) T	O INDICATE	NATURE OF	NOTICE, REPORT	, OR OTHE	ER DATA	
TYPE OF SUBMISSION			ТҮРЕ С	F ACTION			
Notice of Intent	☐ Acidize	☐ Dee	pen	☐ Production (Sta	rt/Resume)	■ Water Shut-Off	
_	Alter Casing	□ Frac	ture Treat	■ Reclamation		■ Well Integrity	
☐ Subsequent Report	□ Casing Repair	□ Nev	Construction	■ Recomplete			
☐ Final Abandonment Notice	Change Plans	Plug	and Abandon	d Abandon 🔲 Temporarily Abandon 💢			4
	□ Convert to Injection	☐ Plug	Back	■ Water Disposal			
13. Describe Proposed or Completed Op If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f COG Operating LLC submitte SHL: 1100' FSL & 2370' FEL, BHL: 990' FSL & 1650' FEL, L	ally or recomplete horizontally fk will be performed or provid operations. If the operation re pandonment Notices shall be fi inal inspection.) d APD for this well at this Unit O	y, give subsurface e the Bond No. or esults in a multipl iled only after all	locations and meas a file with BLM/BI e completion or rec requirements, inclu	cepted for r	pths of all perti reports shall be val, a Form 31e een completed,	nent markers and zones. e filed within 30 days 60-4 shall be filed once	
COG Operating LLC respectfu SHL: 390' FSL & 1535' FEL, U BHL: 990' FSL & 1650' FEL, U	ully requests permission	to change the	SHL to:	NMOCD		CEIVED	
Reason for location change is	due to Archeology.			5/15/2015	M.A	AR 1 3 2013	
A revised C-102, 1 mile map, plan are attached.	flow line, road map, dired	ctional plan, riç	j layouts, H2S,	surface use	ИМО	CD ARTESIA	
14. I hereby certify that the foregoing is	Electronic Submission #	OPERATING L	.C, sent to the C	arlsbad ´	n		<u> </u>
Name(Printed/Typed) KELLY J	HOLLY		Title PERM	ITTING TECH		·	
Signature (Electronic S		00 55050	Date 01/25/2				
	THIS SPACE F	OK FEDERA	LORSTATE	OFFICE USE			
Approved By	a Para		Title FIE	LD MANAGER		Date AP 11	2
Conditions of approval, if any; are attache ertify that the applicant holds legal or equivalent would entitle the applicant to condu	iitable title to those rights in th	s not warrant or se subject lease	Office CARLS	BAD FIELD OFFICE	· ·	÷	

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.

Debuci I
1625 N French Dr., Hobbs, NM 88240
Phone. (575) 393-6161 Fax: (575) 393-0720
District II
811 S. Fret St., Artesia, NM 88210
Phone. (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Beazos Roed, Artec, NM 87410
Phone. (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Frencis Dr., Sinta Fe, NM 87505
Phone. (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

	WE	LL LOCATION AN	D ACREAGE DEDICATION PLAT	
API Numb 30-015-39	- 1	² Post Code 9 7 9 1 7	Pod Noze Dodd;Glorieta-Upper Yeso	
*Property Code 308195			Property Nesse FEDERAL UNIT	Well Number 575
*OGRID No. 229137			Operator Name PERATING, LLC	'Elevation 3601'
		₽ S	urface Location	

UL or let no.	Scetten	Township	Renge	Let Ida	Feet from the	North/South Bac	Feet frem the	East/West line	County	
0	10	17-S	29-E		390	SOUTH	1535	EAST	EDDY	
" Bottom Hole Location If Different From Surface										
UL or lot pa	Section	Township	Reage	Let Ida	Feet from the	North/Seeth Ene	Feet from the	East/West line	County	
0	10	17-S	29-E		990	SOUTH	1650	EAST	EDDY	
DeGented Acres 13 Jaint or Infin										
40		- {								

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.

CORNER DATA NAD 27 GRID — NM EAST A: 1/2" REBAR N 670039.5 — E 580643.6 B: 5/8" REBAR UNLEGIBLE ALUM. CAP N 670044.8 — E 585932.4 C: BRASS CAP "1914" N 672688.8 — E 585919.9 D: BRASS CAP "1914" N 672681.7 — E 580629.9 E: CALCULATED POINT N 671360.6 — E 580636.8 F: CALCULATED POINT N — 671366.8 — E 585926.1	GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 670433.1 E 584395.8 LAT: 32.84280' N LONG: 104.05854' W BOTTOM LOCATION N 671033.1 E 584277.7	Thereby certify that the information constrained have in a true and complete to the best of my browledge and belief, and that this organization either owns a working interest or unleaged minared interest in the land including the proposed bottom hade location or has a right to drill this will at this location pursuent to a contract with an owner of such a minimum or working interest, or to a wolvertary pooling agramment or a compulsory pooling order hereafone entered by the division. **LACLE CONTAILY** Racie Connally** Printed Name **Reconnally** **Connally** **Co
©	DETAIL "A" 3593.7 600' 3605.4 S. L 3600.2 3614.2 N 1.1'08'10" W (GRID) 611.5' (HORIZ.) SEE DETAIL "A" 1535' (B) (C) (C) (C) (C) (C) (C) (C)	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 correct to the best of my belief.

SL: 390' FSL & 1535' FEL UL O BHL: 990' FSL & 1650' FEL UL O

Section 10, T-17-S, R-29-E Eddy County, New Mexico

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently 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 COG Operating, LLC, 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 17th day of December, 2012.

Signed:

Printed Name: Carl Bird

Position: Drilling Engineer

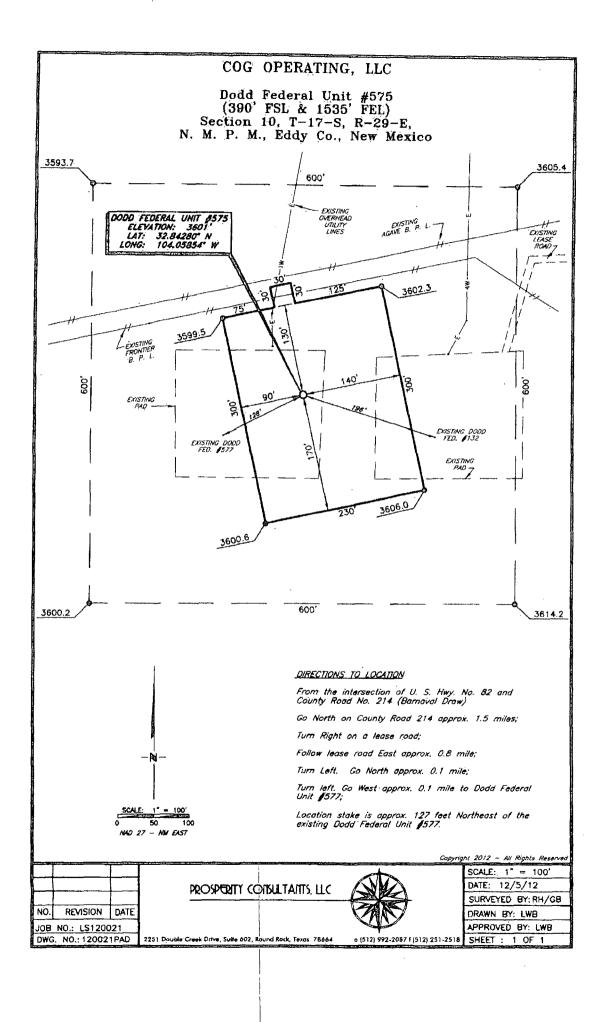
Address: One Concho Center, 600 W. Illinois, Midland, Texas 79701

Telephone: (432) 683-7443

Field Representative (if not above signatory): Same

and Brid

E-mail: cbird@concho.com



VICINITY MAP NOT TO SCALE 32 33 165 29E ولوقيها وأشته مروفاة أتسويه 5 ,i10# 75 29E 16 14 13 DERAL UNIT #575 DOOD F 20 21 ----2'A---

SECTION 10, TWP. 17 SOUTH, RGE. 29 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

> OPERATOR: COG Operating, LLC LEASE: Dodd Federal Unit WELL NO.: 575 ELEVATION: 3601' LOCATION: 390' FSL & 1535' FEL

DIRECTIONS TO LOCATION

From the intersection of U. S. Hwy. No. 82 and County Road No. 214 (Barnaval Draw)

Go North on County Road 214 approx. 1.5 miles;

Turn Right on a lease road;

Follow lease road East approx. 0.8 mile;

Turn Left. Go North approx. 0.1 mile;

Turn left. Go West approx. 0:1 mile to Dodd Federal Unit #577;

Location stake is approx. 127 feet Northeast of the existing Dodd Federal Unit #577.

PROSPERITY CONSULTANTS, LLC

SCALE: 1" = 1000' DATE: 12/5/12 SURVEYED BY: RH/GB DRAWN BY: LWB APPROVED BY: LWB

SHEET : 1 OF 1

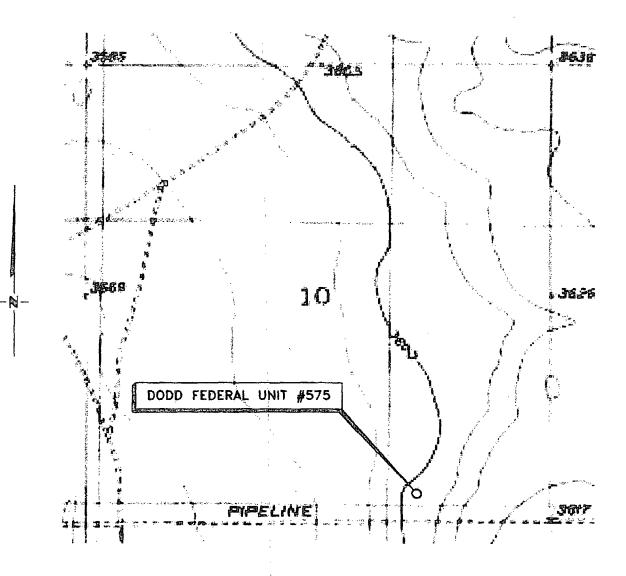
Copyright 2012 - All Rights Reserved

o (512) 992-2087 f (512) 251-2518

REVISION DATE

120021VM 225) Double Creek Drive, Suite 602, Round Rock, Texas 78664

LOCATION VERIFICATION MAP



SECTION 10, TWP. 17 SOUTH, RGE. 29 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC

LEASE: Dodd Federal Unit

WELL NO.: 575

ELEVATION: 3601

LOCATION: 390' FSL & 1535' FEL

CONTOUR INTERVAL: 10'

USGS TOPO. SOURCE MAP:

Red Lake SE, NM (1955)

Copyright 2012 - All Rights Reserved

PROSPERITY CONSULTANTS, LLC



SCALE: 1" = 1000'
DATÉ: 12/5/12
SURVEYED BY:RH/GB

DRAWN BY: LWB
APPROVED BY: LWB

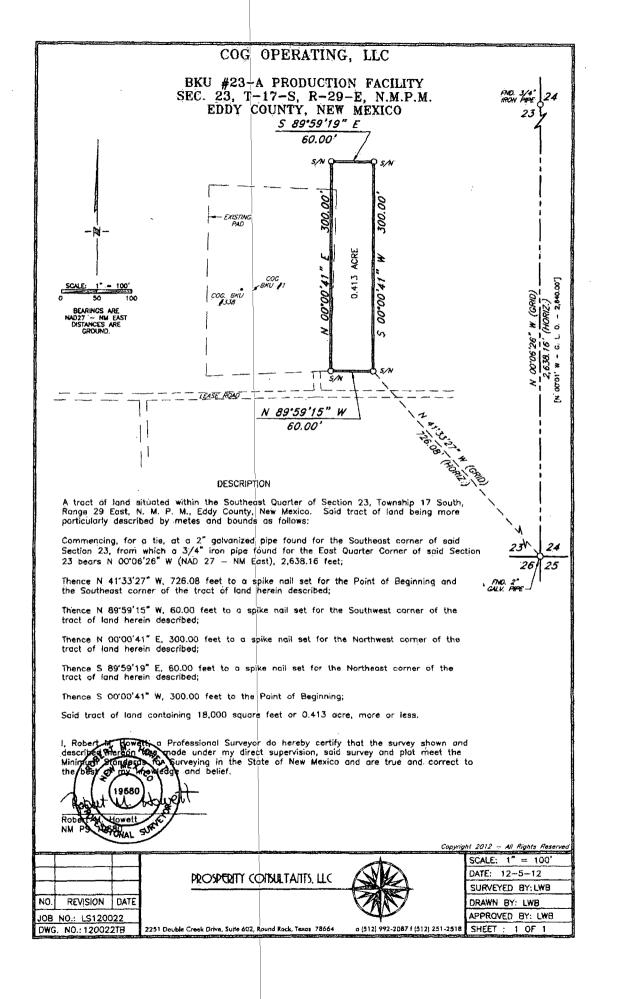
SHEET : 1 OF 1

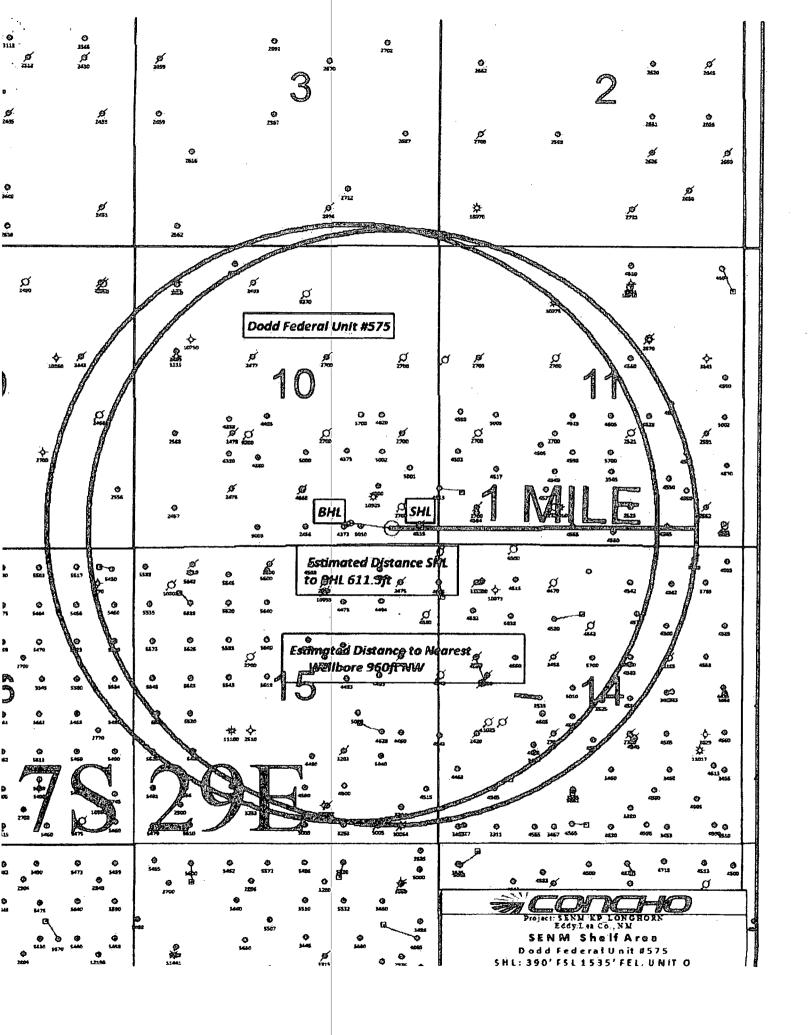
o (512) 992-2087 f (512) 251-2518

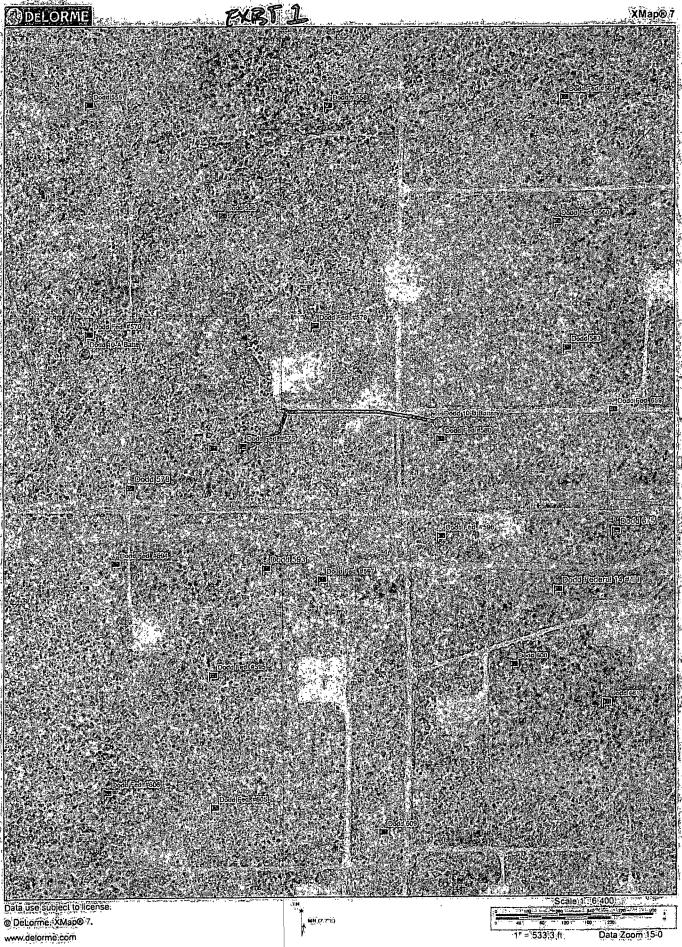
NO. REVISION DATE

JOB NO.: LS120021 DWG. NO.: 120021LVM

2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664







1" = 533 3 ft Data Zoom 15-0





COG Operating LLC

Eddy County, NM (NAN27 NME) Dodd Federal Unit #575

OH

Plan #6 - 7-7/8" Hole

Surface: 390' FSL, 1535' FEL, Sec 10, T17S, R29E, Unit O BHL: 990' FSL, 1650' FEL, Sec 10, T17S, R29E, Unit O

Standard Planning Report

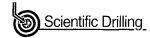
21 December, 2012





Scientific Drilling

Planning Report



EDM(5000:1) Single User Db Well #575 Local Co-ordinate Reference Database COG Operating LLC TVD:Reference: Company: GL,@ 3601.00usft Project: Eddy County (NM (NAN27 NME)) GL @ 3601.00usft MD Reference: Site: DoddFederallUnit #575i OH Grid! North Reference: Well: Survey Calculation Method: Wellbore: Pan #6 - 7-7/8" Hole Design:

Project Eddy County NM (NAN27 NME)

Map System: Geo Datum: US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Dodd Federal Unit Northing: 669,114.80 usft Site Position: Latitude: 32° 50' 21.008 N Easting: 586,009,50 usft 104° 3' 11,875 W Мар Longitude: From: Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.15

Well **Well Position** +N/-S 1,318,41 usft Northing: 670,433,10 usft Latitude: 32° 50' 34.095 N Easting: +E/-W -1.613.83 usft 584,395.80 usft Longitude: 104° 3' 30,749 W **Position Uncertainty** 0.00 usft Wellhead Elevation: Ground Level: 3,601.00 usft

 Wellbore
 OH

 Magnetics
 ModeliName
 Sample Date
 Declination
 Dip/Angle
 Field Strength

 (3)
 (1)
 (1)
 (1)

 IGRF2010
 10/10/2011
 7.82
 60.67
 48,902

Pan #6 - 7-7/8" Hole! **Audit Notes:** Version: PLAN 0.00 Phase: Tie On Depth: Vertical Section: Depth From (TVD) +E/-W Direction +N/-S (usft) (üsft) (usft) L (°) 0.00 0,00 0.00 348.86

	Measured Depth	Inclination (°)	Azimuth	Vertical Depth (Usft)	+W/S (usft)	+E/-W/ (usft)	Dogleg Rate (°/100usft)	Build Rate (\$/100usft)	Turn Rate (:/.100usft)	Л Г О .(°)	Färget
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
-	1,701.89	11.04	348.86	1,698.48	52.00	-10.23	2.00	2.00	-2.02	348.86	
	4,619.38	11.04	348.86	4,562.00	600.05	-118.11	0.00	0.00	0.00	0.00 F	PBHL



Scientific Drilling

Planning Report



Database: EDM:5000:1i,Single:User,Db:
Company: COG:Operating:LEC
Project: Eddy County NM((NAN274NME))
Site Dodd:Federal!Unit
Well: #575
Wellbore: OH
Design Pan #5 - 7-7/8"/Hole

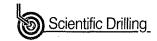
Local Co-ordinate Reference: | Well #575;
TVD Reference:	GL @ 3601 000.sft
MD Reference:	GL @ 3601 000.sft
North Reference:	Grid
Survey, Calculation Method:	Minimum Curvature

Act I was a second	ANT THE BUILDING					alija ili ja alia i	Constant and sens	म्बर्गे स्टब्स्ट स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स स्टब्स स्टब्स स्टब्स स्टब्स स्ट	
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* Measured ****			Vertical 🛴 🛣			Vertical	Dogleg . * . *	Build 2	Turn
Depth /	clination	Azimuth	Depth	*+N/-S	• +E/-W	Section 🧸 🔭	Rate	Rate	, Rate
(usft)	: 1633	* (°) **	(usft)	(usft)		(usft) 🎉 🐔 (The state of the s	/100usft)** **(\$	/100usft)
and the second second second second	A Charles and	1.5	Security of the second	The state of the s	1 2 3 Act 30 Abl	A STATE OF THE PARTY OF THE PAR	y " Natida an Marin	MI STANCE STREET, 9	THE TOTAL
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1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0,00	0.00	0.00
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1,200.00	1.00	348.86	1,200.00	0.43	-0.08	0.44	2.00	2.00	0.00
1,300.00	3,00	348.86	1,299.93	3.85	-0,76	3.93	2.00	2.00	0.00
1,400.00	5.00	348.86	1,399.68	10.70	-2.11	10.90	2,00	2.00	0.00
1,500.00	7.00	348.86	1,499.13	20.95	-4.12	21.35	2.00	2.00	0.00
1,600.00	9,00	348.86	1,598.15	34.61	-6.81	35.27	2.00	2.00	0.00
1,700.00	11.00	348.86	1,696.63	51.64	-10.17	52.63	2.00	2.00	0.00
1,701.89	11.04	348.86	1,698.48	52.00	-10.23	52.99	2.00	2.00	0,00
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1,800.00	11.04	348.86	1,794.78	70.43	-13.86	71.78	0.00	0.00	0.00
1,900.00	11.04	348.86	1,892.93	89.21	-17.56	90.92	0.00	0.00	0.00
2,000.00	11.04	348.86	1,991.08	108.00	-21.26	110.07	0.00	0.00	0.00
2,100.00	11.04	348.86	2,089.23	126.78	-24.96	129.22	0.00	0.00	0,00
2,200.00	11.04	348.86	2,187.38	145.57	-28.65	148.36	0.00	0.00	0.00
2,300.00	11.04	348.86	2,285,53	164.35	-32.35	167,51	0.00	0.00	0.00
2,400.00	11.04	348.86	2,383.68	183.14	-36.05	186,65	0.00	0.00	0.00
2,500.00	11.04	348.86	2,481.83	201.92	-39.75	205.80	0.00	0.00	0.00
2,600.00	11.04	348.86	2,579.98	220.71	-43.44	224.94	0.00	0.00	0.00
2,700.00	11.04	348.86	2,678.13	239.49	-47.14	244.09	0.00	0.00	0.00
2,800.00	11,04	348,86	2,776.28	258.28	-50.84	263.23	0.00	0.00	0.00
2,900.00	11.04	348.86	2,874.43	277.06	-54.54	282.38	0.00	0.00	0.00
3,000.00	11.04	348.86	2,972.58	295.85	-58.23	301.53	0.00	0.00	0,00
3,100.00	11.04	348.86	3,070.73	314.63	-61.93	320.67	0.00	0.00	0.00
3,200.00	11.04	348.86	3,168.88	333.42	-65.63	339.82	0.00	0.00	0.00
3,300.00	11.04	348.86	3,267.03	352.20	-69.33	358.96	0.00	0.00	0.00
3,400.00	11.04	348,86	3,365.18	370.99	-73.02	378.11	0,00	0.00	0.00
3,500.00	11.04	348.86	3,463.33	389.77	-76,72	397.25	0.00	0.00	0.00
3,600.00	11.04	348.86	3,561.48	408.56	-80.42	416.40	0.00	0.00	0.00
3,700.00	11.04	348.86	3,659.63	427.34	-84.12	435.54	0.00	0.00	0.00
3,800.00	11.04	348.86	3,757.78	446.13	-87.81	454.69	0.00	0.00	0.00
3,900.00	11.04	348.86	3,855.93	464.91	-91.51	473.83	0.00	0.00	0.00
4,000.00	11.04	348.86	3,954.08	483.70	-95.21	492.98	0.00	0.00	0.00
4,046.78	11.04	348.86	4,000.00	492.49	-96.94	501.94	0.00	0.00	0.00
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4,100.00	11.04	348.86	4,052.23	502.48	-98.91	512.13	0.00	0.00	0.00
4,200.00	11.04	348.86	4,150.38	521.27	-102.60	531.27	0.00	0.00	0.00
4,300.00	11.04	348.86	4,248.53	540.05	-106.30	550.42	0.00	0.00	0.00
4,400.00	11.04	348.86	4,346.68	558.84	-110.00	569.56	0.00	0.00	0.00
4,500.00	11.04	348.86	4,444.83	577.62	-113.70	588,71	0.00	0.00	0.00
4,600.00	11.04	348.86	4,542.98	596.41	-117.39	607.85	0.00	0.00	0.00
,				1					
4,619.38	11.04	348.86	4,562.00	600.05	-118.11	611.56	0.00	0.00	0.00
	www.comment.com/PDE/P	44 2. 14 (L. 12 14)	为教士等的对象的	the second second	TO PARTY.	1855 14 TOLER 25 TO	THE PARTY OF THE P	I. WAZELEY	さんき オコグダブ いっき



Scientific Drilling

Planning Report



Database: EDM:5000:jl/Single!User.Db: Company: COG Operating!User.Db: COG Operating!User.Db: COG Operating!User.Db: Edgy.County/NM:(NAN27/NME): Edgy.County/NM:(NAN27/NME): Doadd Federal Unit!/ #57.5;
Well: #57.5;
Wellbore: OH: Pan:#6:-77.7/6:"Hole:

Local Co-ordinate Reference:

TVDIReference: MD Reference: North Reference: Survey Calculation Method

Well #575

GL:@ 3601:00usft GL @ 3601 000sft

Minimum Curvature

and the state of t	منافض وفوع والمراجع والمحارض والمحارث والمحارث والمحارث والمحارث والمحارث والمحارث والمحارث والمحارث	المراجع والمراجع والمنطولان المراجع والمستناء والمراجع وا	in, all skryttelfing transpropries attended to the province and the
Design Targets	geraman tarentinam taria sum	the property of the state of the	S. J. 4. B. Edgett
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Target Name	ALL STATE OF THE SECOND	A STATE OF THE STA	来 跨越海。在今天影場中四朝歌台
larget Name	A STATE OF THE PARTY OF THE PAR		

hit/miss target Dip Angle Dip Dir. TVD: +N/S Shape (3) (Usft) (usft) Easting : (usft) (usft) 0.00 0.01 600.05 4,562.00 -118.11 104° 3' 32.115 W 671,033.10 584,277.70 32° 50' 40.035 N

PBHL - plan hits target center

- Point

	Casing Points 76	And the state of t	
Į			
	Measured	Vertical 4	Casing, Hole
	Depth	Depth	Diameter Diameter
	Control Control	(usit)	Name
ì	1,050.00	1,050.00 8-5/8" Casing	8-5/8 12-1/4

Formations (Measured) Verticals (Depth Depth) (usft) (usft) Name	Dip Dip Dip PDirection Ethology (2)
4,046.78 4,000.00 Top of Paddock	0.00

Plan/Annotations Measured, Depth (usft)	Vertical Depth (usft)	Local/Coordin	ates: +E/-W	Comment	
1,150.00	1,150.00	0.00	0.00	KOP Start DLS 2.00 TFO 348.86	<u>Dis 2385 tr</u>
1,701.89	1,698.48	52.00	-10.23	Start 2917.49 hold at 1701.89 MD	

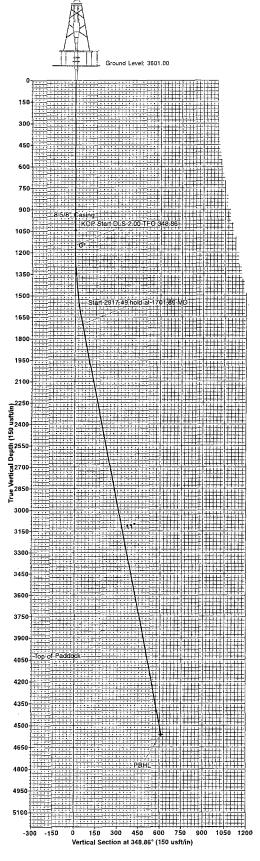


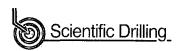
Dodd Federal Unit #575 Eddy County, NM (NAN27 NME)

Northing: Easting:

670433.10 584395.80

Pan #6 - 7-7/8" Hole







vert a Magnetic Direction to a Grid Direction, Add 7.67° vert a True Direction to a Grid Direction, Subtract 0.15°

Azimuths to Grid North True North; -0.15° Magnetic North; 7.67°

VELL DETAILS:

		Grou	nd Level: 1	3601.00	
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	670433,10	584395.80	32° 50' 34.095 N	104° 3' 30,749 W

SECTION DETAILS

MD	inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	
1701.89	11.04	348.86	1698.48	52.00	-10.23	2.00	348.86	52.99	
4619.38	11.04	348.86	4562.00	600.05	-118.11	0.00	0.00	611.56	PBHL

DESIGN TARGET DETAILS

DESIGN TANGET DETAILS					
Name T PBHL 4562	VD +N/-		Northing 671033.10	Easting 584277.70	

SITE DETAILS: Dodd Federal Unit Site Centre Northing: 669114.80 Easting: 586009.50

Positional Uncertainity: 0.00 Convergence: 0.15 Local North: Grid

PROJECT DETAILS: Eddy County, NM (NAN27 NME) Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

 CASING DETAILS
 Name
 Size

 1050.00
 8-5/8" Casing
 8-5/8
 1050.00

FORMATION TOP DETAILS

Map System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone Name: New Mexico East 3001

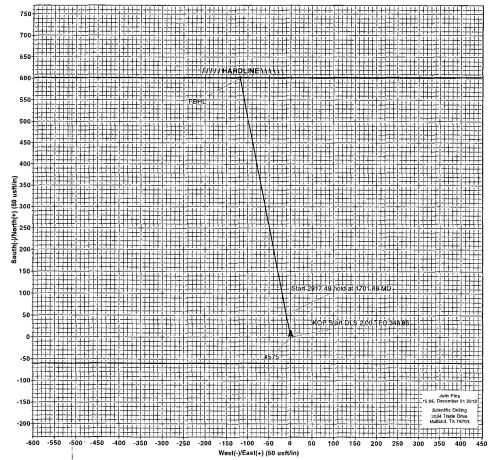
Local Origin: Well #575, Grid North

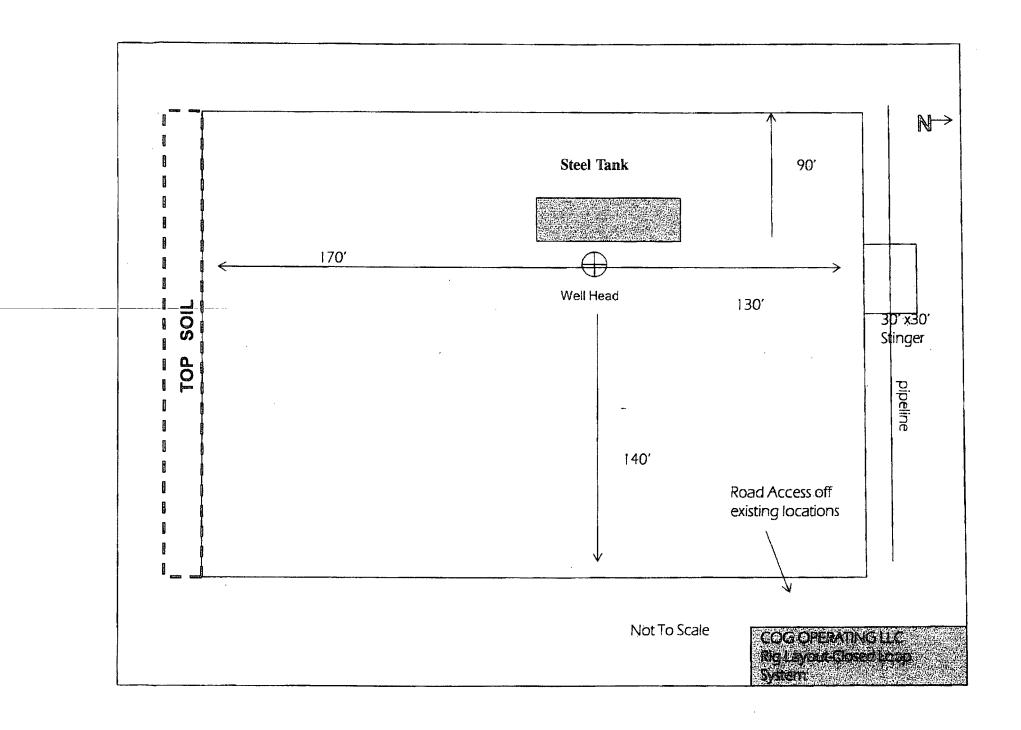
Latitude: 32° 50′ 34.095 N Longitude: 104° 3′ 30.749 W

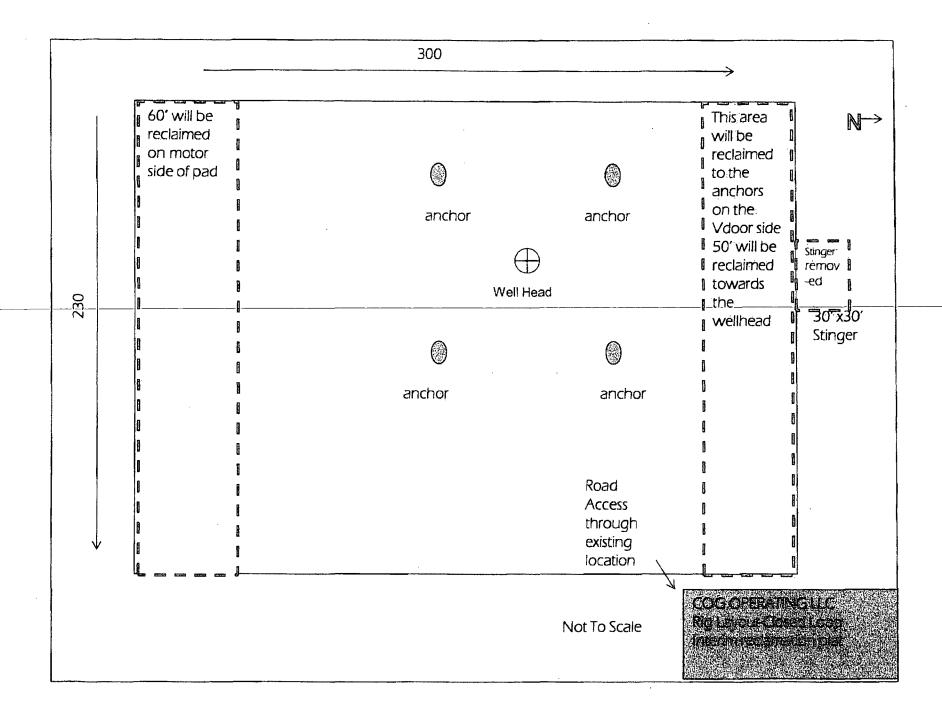
Grid East: 584395.80 Grid North: 670433.10 Scale Factor: 1.000

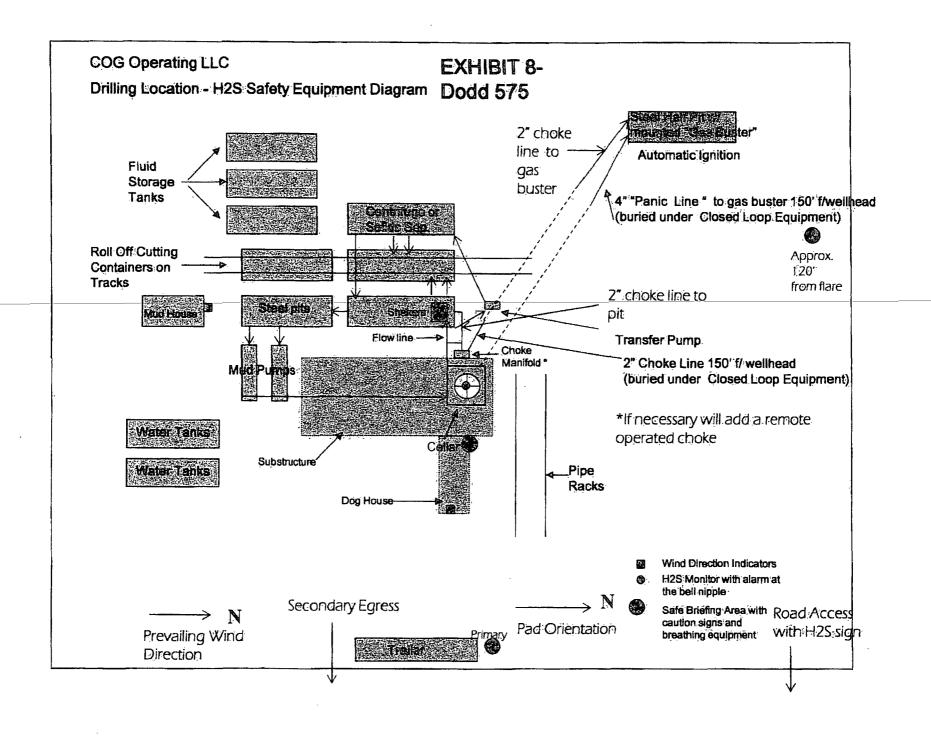
Geomagnetic Model: IGRF2010 Sample Date: 10-Oct-11 Magnetic Declination: 7.82° Dip Angle from Horizontal: 60.67° Magnetic Field Strength: 48902

To convert a Magnetic Direction to a Grid Direction, Add 7.67°
To convert a Magnetic Direction to a True Direction, Add 7.62° East
To convert a True Direction to a Grid Direction, Subtract 0.15°









BHL: 040' FSL & 1650' FEL

Section 10, T-17-S, R-29-E

UL O UL O

Eddy County, New Mexico

Surface Use & Operating Plan

Dodd Federal Unit #575

- Surface Tenant: Bogle Farms, Lewis Derrick, P O Box 441, Artesia, NM 88211.
- New Road: approx. 0'
- Flow Line: approx. 0.2 mile
- Facilities: Dodd South Federal Tank Battery

Well Site Information

V Door: North

Topsoil: South

Interim Reclamation: South/North

Notes

-611' move to avoid Archeology

Onsite: 12/4/2012

John Fast (BLM), Caden Jameson (COG), Gary Box (J.W.S)

BHL: 490' FSL & 1650' FEL

UL O UL O

Section 10, T-17-S, R-29-E Eddy County, New Mexico

SURFACE USE AND OPERATING PLAN

1. Existing & Proposed Access Roads

- A. The well site survey and elevation plat for the proposed well is attached with this application. It was staked by John West Engineering, Hobbs, NM.
- B. All roads to the location are shown in the Vicinity Map. The existing lease roads are illustrated and are adequate for travel during drilling and production operations. Upgrading existing roads prior to drilling the well will be done where necessary. The road route to the well site is depicted in Exhibit #2. The road highlighted in Exhibit #2 will be used to access the well.
- C. Directions to location: See exhibit #2.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease. Roads will be maintained according to specifications in section 2A of this Surface Use and Operating Plan.

2. Proposed Access Road:

The Elevation Plat shows that 0' of new access road will be required for this location. If any road is required it will be constructed as follows:

- A. The maximum width of the running surface will be 14'. The road will be crowned, ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low water crossings or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. If not available onsite, caliche will be hauled from the nearest BLM approved caliche pit.

Surface Use Plan Page 2

UL O

Section 10, T-17-S, R-29-E Eddy County, New Mexico

BHL: 990' FSL & 1650' FEL

3. Location of Existing Well:

The 1-mile Map shows all existing wells within a one-mile radius of this well.

As shown on this plat there are numerous wells producing from the San Andres and Yeso formations.

4. Location of Existing and/or Proposed Facilities:

- A. COG Operating LLC does operate a production facility on this lease.
- B. If the well is productive, contemplated facilities will be as follows:
 - 1) Production will be sent to the Dodd 10-B Federal Tank Battery to be located in Section 10 at the Dodd Federal Unit #580 well location. The facility location is shown in Exhibit #1.
 - 2) The tank battery and facilities including all flow lines and piping will be installed according to API specifications.
 - 3) Any additional caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche will be hauled from a BLM approved caliche pit. Any additional construction materials will be purchased from contractors.
 - 4) Proposed flow lines, will follow an archaeologically approved route to the Dodd 10-B Federal Tank Battery to be located in Section 10 at the Dodd Federal Unit #580 well location. The flowline will be SDR 7 3" poly line laid on the surface and will be approximately 0.2 mile in length.
 - 5) It will be necessary to run electric power if this well is productive. Power will be provided by CVE and they will submit a separate plan and ROW for service to the well location.
 - 6) If the well is productive, rehabilitation plans will include the following:
 - The original topsoil from the well site will be returned to the location, and the site will be re-contoured as close as possible to the original site.

Surface Use Plan Page 3

BHL: 990 FSL & 1650' FEL

UL O UL O

Section 10, T-17-S, R-29-E Eddy County, New Mexico

5. Location and Type of Water Supply:

The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from commercial water stations in the area and hauled to location by transport truck over the existing and proposed access roads shown in Exhibit #2. If a commercial fresh water source is nearby, fast line may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

6. Source of Construction Materials and Location "Turn-Over" Procedure:

Obtaining caliche: The primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well sight. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cu. Yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- B. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- C. Subsoil is removed and piled alongside the 120' by 120' area within the pad site.
- D. When caliche is found, material will be stock piled within the pad site to build the location and road.
- E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- F. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in attached plat.
 - In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit.

Surface Use Plan

UL O UL O

Section 10, T-17-S, R-29-E Eddy County, New Mexico

BHL: 990 FSL & 1650' FEL

7. Methods of Handling Water Disposal:

- A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.
- B. Drilling fluids will be contained in steel mud pits.
- C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- D. Garbage and trash produced during drilling or completion operations will be collected in a trash bin and hauled to an approved landfill. No toxic waste or hazardous chemicals will be produced by this operation.
- E. Human waste and grey water will need to be properly contained and disposed of. Proper disposal and elimination of waste and grey water may include but are not limited to portable septic systems and/or portable waste gathering systems (i.e. portable toilets).
- F. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. In the event of a dry hole only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite or other facilities will be built as a result of the operation on this well.

9. Well Site Layout:

- A. The drill pad layout, with elevations staked by John West Engineering, is shown in the Elevation Plat. Dimensions of the pad and pits are shown on the Rig Layout. V door direction is North. Topsoil, if available, will be stockpiled per BLM specifications. Because the pad is almost level no major cuts will be required.
- B. The Rig Layout Closed-Loop exhibit shows the proposed orientation of closed loop system and access road. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.

Surface Use Plan

UL O UL O

Section 10, T-17-S, R-29-E Eddy County, New Mexico

BHL: 990' FSL & 1650' FEL

10. Plans for Restoration of the Surface:

- A. Interim Reclamation will take place after the well has been completed. The pad will be downsized by reclaiming the areas not needed for production operations. The portions of the pad that are not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused to either build another pad site or for road repairs within the lease. The stockpiled topsoil will then be spread out reclaimed area and reseeded with a BLM approved seed mixture. In the event that the well must be worked over or maintained, it may be necessary to drive, park, and/or operate machinery on reclaimed land. This area will be repaired or reclaimed after work is complete.
- B. Final Reclamation: Upon plugging and abandoning the well all caliche for well pad and lease road will be removed and surface will be recountoured to reflect its surroundings as much as possible. Caliche will be recycled for road repair or reused for another well pad within the lease. If any topsoil remains, it will be spread out and the area will be reseeded with a BLM approved mixture and re-vegetated as per BLM orders.

11.Surface Ownership:

- A. The surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is multiple uses with the primary uses of the region for grazing of livestock and the production of oil and gas.
- B. The surface tenant is Bogle Farms, Lewis Derrick, P.O. Box 441, Artesia, NM 88211.
- C. The proposed road routes and surface location will be restored as directed by the BLM

Surface Use Plan COG Operating, LLC Dodd Federal Unit 575

SL: 390' FSL & 1535' FEL U. BHL: 940' FSL & 1650' FEL U.

Section 10, T-17-S, R-29-E Eddy County, New Mexico UL O UL O

12.Other Information:

- A. The area around the well site is grassland and the topsoil is sandy. The vegetation is moderately sparse with native prairie grasses, some mesquite and shinnery oak. No wildlife was observed but it is likely that mule deer, rabbits, coyotes and rodents traverse the area.
- B. There is no permanent or live water in the immediate area.
- C. There are no dwellings within 2 miles of this location.
- D. If needed, a Cultural Resources Examination is being prepared by Boone Arch Services of New Mexico, LLC. Carlsbad, NM, 88220. 506 E Chapman Rd., phone # 575.887.7667 and the results will be forwarded to your office in the near future. Otherwise, COG will be participating in the Permian Basin MOA Program.

13. Bond Coverage:

Bond Coverage is Nationwide Bond # 000215

14. Lessee's and Operator's Representative:

The COG Operating LLC representative responsible for assuring compliance with the surface use plan is as follows:

Jim Evans	Ray Peterson

Drilling Superintendent	Drilling Manager
Dianing Supermeentering	***************************************

COG Operating LLC COG Operating LLC

One Concho Center One Concho Center

600 W. Illinois 600 W. Illinois

Midland, TX 79701 Midland, TX 79701

Phone (432) 685-4304 (office) Phone (432) 685-4304 (office)

(432) 221-0346 (business) (432) 818-2254 (business)

APD Tracking #:
Site Evaluation Field Form

Operator Name: <u>CDG</u> Well Name <u>Dodd 575</u>
SHL: Section 10 , T. 17 s. R. 29 E. Footage 395 FSL & 1505 FEL
Well Type: Horizontal Vertical Oil Gas Other NOS/APD Received? NOS APD
Surface Management Agency (SMA): BLM FEE STATE Other SMA Contacted? Yes No
Operator Representative/ Contact Name:
BLM Onsite Representatives $\mathcal{L} + \mathcal{L} + \mathcal{L}$
Description & Topography: (cut & fill, etc.) <u>expand</u> N × 5
Soïls: (reseeding stips, etc.) Saudy
Cave Area: /ow
Hydrogeology: (playas, floodplain, drainages, erosive soils, plant indicators, etc.)
Wildlife: (habitat, LPC, SDL, etc.)
Range Improvements: (fences, etc.)
Well Infrastructure
V-Door Direction:Topsoil:
Pad Size: 250×300
Road Route:
Prod. Facility Placement:
Interim Rec:
Other:
Evaluation: (Moved?)