Form 3160-4 (April 2004)

N.M. OI COID. LIV-DIA. 1301 W. Grand Avenue UNITED STATES DEPARTMENT OF THE INTERIOR MM 88210

FORM APPROVED OMBNO. 1004-0137 Expires: March 31, 2007

	14/0		NADI E	TION OF	DECOMB	ETIO	N DEDO	DT 44	ID 1 00		<u> </u>		Expires: M	larch 31, 2007
	VV E			ETION OF	RECOMPI	LETIC	N REPU	———	ND LOG			5. Lea	se Serial No	LC-072015-C
	e of Well				Dry Dry		[]n	L Dt.		n		6. If In	dian, Allotte	e or Tribe Name
в. турс	of Comple	euon:	Other	_	Work Over	De	epenP	lug Back	:Diff	. Kesvi	r, .		-	ement Name and No.
2. Nam	e of Operat	tor CO		8. Lease Name and Well No.										
			Ha	nson 33 Fe										
3. Address 550 W. Texas, Suite 1300 3a. Phone No. (include area code) 432-685-4340													015-33951	
4. Loca	4. Location of Well (Report location clearly and in accordance with Federal requirements) RECEIVED													or Exploratory a (Gas)
	At surface 890' FNL & 1090' FWL, Unit D													· · · · · · · · · · · · · · · · · · ·
At to	At top prod. interval reported below												ey or Area	on Block and Sec 33, T20S, R27E
At to	tal depth						. •	JUU	AT FINAS	SU	4 ' [12 Cour Eddy	ity or Parish	1 13. State NM
14. Date			15.	Date T.D. Re	ached		16. Date (Complete	×d					RKB, RT, GL)*
05/1	0/2005			06/17/200	5			& A	✓ Ready 1	to Pro			3219'	
18. Total	•	MD		19	Plug Back T.D.				20. Dept	h Brid	lge Plug S			10,590
		TVD 11,					10,555					TV		
21. Type	Electric &	t Other N	1echanic	al Logs Run (Submit copy of	each)				well c		No No	∐Yes (Sub	omit analysis) omit report)
Mic	ro CFL / C	GR									Survey?	NO V		Submit copy)
23. Casin	ng and Lin	er Reco	rd (Reno	ort all string:	s set in well)					CUOILL	Dui vey:	<u> </u>		виони сору)
Hole Size			t. (#/ft.)	Top (MD)		D) Sta	ge Cementer Depth		of Sks. & of Cement	Slu	rry Vol. BBL)	Cemer	ıt Top*	Amount Pulled
17.5	13.37	5 4	8	487				400 (-				85 sx to pit
11	8.625	32	2	2228				950 (2					15 sx to pit
7.875	5.5	1	7	11,050				1760	Cmcrete					
	ļ			ļ		_		Ļ				ļ		
												<u> </u>		
		L		<u> </u>		J						<u> </u>		<u> </u>
	g Record			 				Y						
Size		Set (MI		r Depth (MD)	Size	Dep	oth Set (MD)	Packer	Depth (MD)	<u> </u>	Size	Dept	n Set (MD)	Packer Depth (MD)
2-7/8	9900	nla .	9900)'		126	Donforetion	. Dogged		J				
23. Produ	cing Interv			Тор	Bottom	26	Perforation Perforated			Size	l No. 1	Holes	T	Perf. Status
A) Low	er Morro			ТОР	Dought	10					+	26 Plugged		
B) Mor		w					10,866' - 10,879' .42 10,672' - 10,681' .42				41			
C) Atol							95' - 10,001'					40 Plugged 36 Open		
D)											1			
	Fracture, Tr	reatment,	Cement S	queeze, etc.										
	Depth Inter	val					A	mount a	nd Type of N	/lateria	al			
	- 10,879' (Iorrow perfs							SCF of I	N2.	
	- 10,681'	`			perfs w/ 2000									
10,628	- 10,638'	(Morrov	v)	Frac Morro	w perfs w/ 45,	600 gal	quality bin	ary foa	m & 42,00	0# 18	/40 ultra	prop.		
28. Produ	ction - Inte	rval A											 -	
Date First	Test	Hours	Test	Oil	Gas	Water	Oil Grav	ity	Gas		Production	Method		
Produced	Date	Tested	Produc	_	MCF	BBL	Corr. Al	Pľ	Gravity		FLOWIN	c		
08/24/2005 Choke	08/29/2005 Tbg. Press.	Csg.	<u> </u>	Oil	758 Gas	Water	Gas/Oil		Well State		TEOWIN			
Size 8/64	Flwg. SI 850	Press.	24 Hr. Rate	BBL	MCF	BBL	Ratio		Will State	us	A	CCEP	TED F	OR RECORD
28a. Prod		erval B	.1		11						_			
Date First	Test	Hours	Test	Oil		Water	Oil Gray	ity	Gas		Production	Method		
Produced	Date	Tested	Producti	on BBL	MCF	BBL	Corr. AF	1	Gravity				OCT 1	8 2005
Choke	Tbg. Press.	Csg.	24 Hr.	Oil.		Water	Gas/Oil		Well Status	 S		1		
Size	Flwg. SI	Press.	Rate	BBL	MCF	BBL	Ratio					L	VIC C (acs
*(Saa ina		nd oracco		tional data on	page 21									SWOBODA LENGINEER
(DEE INS	nuctions a	na spaces	joi uuuli	nonur uutu on	puge 4)						L	11	·~	- IN OHALEK

28h Produ	uction - Inte	erval C								
Date First	Test	Hours	Test	Oil	Gas	Water BBL	Oil Gravity	Gas	Production Method	
Produced	Date	Tested	Production	BBL	MCF	BBL	Cont. API	Gravity		
	73 - D	 		0.1	Geo	177.4	Gas/Oil	Wall Ctates	<u> </u>	
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil- BBL	Gas MCF	Water BBL : ()	Ratio	Well Status		
2.20	SI		Mait				Ī			
28c. Prod	luction - Int	erval D		rasp.						
Date First	Test	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. API	Gravity		
Chala	77 D					ļ	Gas/Oil	Weli Status		
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Ratio	wen status		
	SI									
29. Disp	osition of (Gas (Sold, 1	used for fuel,	vented, etc.,)	<u> </u>	<u> </u>	·		
SOI		,	, , .							
			<u> </u>	e. \				Tat 13	4 > 16 1	
			(Include Aq					31. Formati	ion (Log) Markers	
Shov	w all import	tant zones	of porosity a	and contents	thereof: C	ored intervals	and all drill-stem shut-in pressures			
and 1	recoveries.	achat mer	vai testeu, cu	sinon uscu,	mile tool ope	ii, iiowing and	shuc-m pressures	}		
		· · · · · ·	 _							Тор
Form	nation	Top	Bottom		Descrip	ptions, Content	s, etc.		Name	Meas. Depth
		 	+					 		
DELAW	'ARE	2285								[
BONE S	PRING	4242	1							
1ST BON		1					•			
SPRING		5722		1						
3RD BOI SPRING	_	7772						(
DX IQI10	D211.1D	1112	İ							
WOLFC	AMP	8297								
STRAWI	N	9618	1]						
SIKAWI	14	7010								
ATOKA		9956	1	ĺ]		
MORRO	w	10,170		ŀ				ĺ		
MORRO	w		1	1				ł		
SANDS		10,532		ļ				}		
LOWER		10.004						1		
MORRO) YY	10,764						[
		<u> </u>						L	<u> </u>	<u> </u>
32. Addit	ional remar	ks (include	e plugging pr	ocedure):						
33. Indica	te which itr	nes have b	een attached	by placing a	check in the	e appropriate l	oxes:	العامرة لأعارج ع		
			ogs (1 full set				DST Report		ol Cumion	
			ng and cemei			logic Report : Analysis	Other:		ii Survey	
	um y i volice	tor bruggi	ng ann cemei	it verificatio	II (A) COLO	Analysis	▼ TOmer.			•
24 Yhaarl		-4-1 C		-1 - 1 · C		1.41		-11 11	1	
A. Incret	by centry th	at the fore	going and att	acneu inform	шинол 15 соп	ipiete and corr	ect as determined if	oru an avanao	le records (see attached instructi	онз)
Name (please prin	u) 1	Phyll is A. E	dwards			Title Regulate	ory Analyst		
1				7			1			
Signati	ure	<i>∱-\</i> /,	"Ilen	D'M	Ton-	do	Date 10/17/20	05		
			y and							
Title 18 U.	S.C Section	n 1001 an	d Title 43 U.	S.C Section	1212, mak	e it a crime for	any person knowi	ngly and willf	ully 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.

State of New Mexico

DISTRICT I 1625 N. PRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies

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

DISTRICT IN

Santa Fe, New Mexico 87505

Fee Lease - 3 Copies

Form C-102

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code	Pool Name	
30-015-33951	70880	Avalon - Atoka (Gas)	
Property Code	Pro	Well Number	
1	HANSON	33 FEDERAL	4
OGRID No.	-	rator Name	Elevation
229137	COG OPE	CRATING, LLC.	3219'

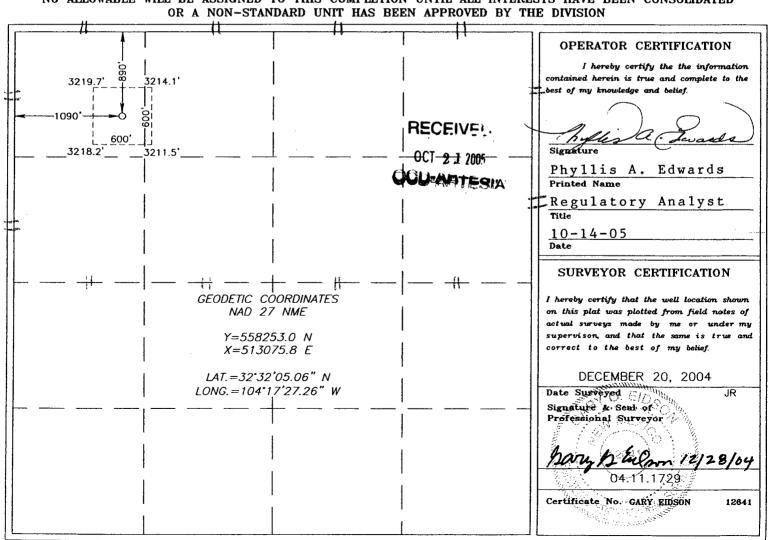
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	33	20-S	27-E		890	NORTH	1090	WEST	EDDY

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	Joint o	r Infill C	onsolidation (Code Or	der No.			<u> </u>					
320													

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



OPERATOR WELL/LEASE

COUNTY

COG OPERATING HANSON 33 #4 EDDY, NM

STATE OF NEW MEXICO DEVIATION REPORT

 			DEV	IATION RE	PORT	
170	4		6.00			
172	1		6,834			
442	1		6,96			
635	1		7,099			
886		1/2	7,19			
1,104	1		7,385			
1,324	1	1/4	7,480			
1,543		1/2	7,670			
1,728	1		7,765			
1,914	1		7,86		3/4	
2,206	1		7,956			
2,405		3/4	8,05			
2,655	1		8,146			
2,906		1/2	8,241			
3,158	1		8,432		1/4	
3,406	1		8,527		1/2	
3,660	1	3/4	8,622	2 2		
3,755	1	1/2	8,713			
3,850	1		8,908		3/4	
3,946		3/4	9,098			
4,135		3/4	9,320			
4,324	1		9,415			· · · · · · · · · · · · · · · · · · ·
4,576		3/4	9,510) 3		
4,765		1/4	9,637	7 2		
5,053	1		9,765	7 2 5 2	1/2	
5,244	1	1/4	9,890) 3		
5,434	2		10,01		1/2	
5,528	1	1/4	10,14	5 2		
5,623	1	3/4	10,27	2 2		
5,719	2		10,42	7 2	3/4	
5,876	1	1/2	10,74	4	3/4	
6,003	1	1/4	10,87	0	1/2	
6,130	1		11,05		1/2	
6,257	1	3/4	·			
6,383	1	1/2				
6,511	1	3/4				
6,677	2					
•						

1: Seve

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.

Notary Public for Midland County, Texas

My Commission Expires: 8/23/07

June 24, 2005 , by Steve



J ROBERTSON

Notary Public, State of Texas My Commission Expires:

August 23, 2007

CORE LABORATORIES

Company

Location : Go, State :

COG OPERATING LLC
HANSON "33" FEDERAL NO. 4
890' FNL & 1090' FWL, SEC. 33, T-20-S, R-27-E
EDDY COUNTY, NEW MEXICO

Field : AVALON FIELD : VARIOUS

Formation : Coring Fluid : Elevation :

BRINE 3219' GL

Date

Σ \Box 0 æ ш S T S

ft	DEPTH
3 7	ole of Carlos
	SAMPLE NUMBER
ft	ПЕРТН

SAMPLE NUMBER

	10	9	œ	7			თ	Ü	4	ω	2	1		
,	5739.0	4479.0	4465.0	4460.0			4231.0	4223.0	4214.0	4209.0	4198.0	3883.0		
``,	i yw		.		.,	(A)	10.48		S) é		etvi .	Ž.	 i. Nasa	
26	25	24	23	22	21			20	19	18			17	16
10874.5	10871.0	10676.0	10634.0	10426.0	10423.0			9998.0	9997.5	9978.0			9527.0	9509.

9359.0 9355.0 9142.0

9139.0

9440.0