Permit number.





January 9 1) Date:

Operator's Murphy C-4 Well No. 3) API Well No.

Permit

STATE OF WEST VIRGINIA

	OIL & GAS DIV. D	EPARTMENT OF MINES, OIL AND GAS DIVISION
	DEPT. OF MINES	APPLICATION FOR A WELL WORK PERMIT
4)	WELL TYPE: A Oil/ Gas _	<u>X</u> _/
	B (If "Gas", Production _	/ Underground storage
5)	LOCATION: Flourtion: 2012	31 Watershed, Simmons Fork

4)	WELL TYP	PE: A	Oil	/ Ga	as A	/				in the same of
									/ Deep/	Shallow X/)
5)	LOCATIO	N: Ele	evation: _	201	12.3'	er a significant	_ Watershed: _	Simmons Fo	rk of Clear Fork	(
		Di	strict:	0cear	na		_ County: _ W	lyoming	Quadrangle: N	Natheny 7½
6)	WELL OP	ERATOR	Cabot	0i1 &	Gas (Corp.	of WV	7) DESIGNAT	EDAGENT David	G. McCluskey
	Address		Box				(0)	Address	P.O. Box 628	
			arlesto		25322)	2150		Charleston, W	NV 25322
8)	OIL & GAS	SINSPEC	TOR TO	BE NOTI	FIED		0.	9) DRILLING	CONTRACTOR:	
	NameA	rthur	St. Cl	air				Name U	NKNOWN	
	Address	P.(Box	468				Address		
		Bre	enton,	WV 248	318 7	732-6	227			
10)	PROPOSE	D WELL	WORK:	Drill_	Χ	Drill	deeper	/ Redrill	/ Stimulate	
				Plug of	f old fo	rmation	/ Perfo	rate new formati	on/	
				Other p	hysical c	hange in	well (specify)			
11)	GEOLOGI	CAL TAR	GET FOR	MATION	, <u> </u>	Ravend	cliff, Big	Lime, Weir		
	12) Estima	ted depth	of complete	ed well,	37	710	feet			
	13) Approx	ximate trai	ta depths:	Fresh, _	135,	520	feet; sal	t, 1580	feet.	
	14) Approx				504,	1072			the area? Yes	/ NoX
15)	CASING A	ND TUB	ING PROC	GRAM						
	SING OR		SPEC	IFICATIONS		1	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TU	BING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	

CASING OR TUBING TYPE		SPEC	IFICATIONS Weight	i i		FOOTAGE INT	ERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	16"		65	X		30'	30'	10 sks. Neat	CiTas
Fresh water	->					11001	1110'	CTS IV	EAT
Coal)	8-5/8"		24	X		2060'	2060	530 sks. Nea	tsizeTS
Intermediate									
Production	4-1/2"		10.5	X		3710	3710'	380 sks. or	al Sopths set
Γubing			in in the last					req. by Rule	15.01
Liners						Taxible to the latest the latest terms of the			Perforations:
									Top Bottom
		2001/200	部在自由	redo.	gen a la	8 23 / 00 / 11 700 40 8		D trigot not right	Cold mayor a location of

OFFICE USE ONLY **DRILLING PERMIT** 47-109-0952 19 85 January 11

Date This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

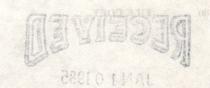
January 11, Permit expires unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
30	MILL	MU	mu	449

NOTE: Keep one copy of this permit posted at the drilling location.

dministrator, Office of Oil and Gas





OIL & GAS DIV.						
MILL CLUB N III	279	1200	199	N PAN	20%	2100
	10		8 . 3	200	No.	111 1

OFFICE US	EUNLY
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PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

Guadanje Matheny 7; Gree David G. McGluskey	purinovW vmuco	505000 until
Y SACUTOUT . U LE VIDE TOTAL	rastauousa e VW 70	.grod 250 & FtO Joseph Core Core
P.O. Box 628		Address P. O. 20x 623
Charleston, WV 25322	9510	Cherleston WV 25322
	NO DINE INDICON	S) OR & GAS INSPECTOR TO BE NOTHING
	VOINUE smake	News Arthur St. Clair
	729	Erenton, WV 24818 732-6
Sumulate X		OF PROPOSED WEEL WORK FAMILY OF B
- The state of the		
	cliff, Big Lime, Heir	O GEOLOGICAL PARCITEDRALION RAVER
		13) Estimate denth of gomeleted well, 2770
	1580	13) Approximate traffs depths. Fresh. 135, 520
		141 Aprice and countries of the countrie
•		(2) LASING AND TUBING BROCKANG
	II PALENTALITATI ALAN TIMO	
270 4 - 11 23 0 6	the mints to antiferance	No. 1 447 Bare 9850 3 3 3 3
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530 sks. Wedt CTS	10002	on 2 8-5/3 24 X
	The second second	all and the state of the state
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Harry Francisco	OFFICE USE ONLY	The state of the s
	GITTEE COE CIVET	
This part of Form IV-2(b) is to record t	he dates of certain occurrences a	nd any follow-up inspections.
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This part of Form IV-2(b) is to record t		
Γhis part of Form IV-2(b) is to record t	he dates of certain occurrences a	nd any follow-up inspections. Date(s)
	Date	Date(s)
	Date Follow-up	Date(s)
Application received	Date	Date(s)
Application received	Date Follow-up	Date(s) p inspection(s)
Application received Well work started	Date Follow-up	Date(s) p inspection(s)
Application received Well work started Completion of the drilling	Date Follow-up ""	Date(s) "" "" "" "" "" "" "" "" "" "" "" "" "
Application received Well work started Completion of the drilling process	Date Follow-up The state of the problem of the pr	Date(s) p inspection(s) "" "" "" "" "" "" "" "" ""
Application received Well work started Completion of the drilling process	Date YIMA 34 DATE **THE STATE OF STAT	Date(s) "" "" "" "" "" "" "" "" "" "" "" "" "
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Application received Well work started Completion of the drilling process Well Record received Reclamation completed	Date YIMA 34 BY THE ACT OF THE A	Date(s) "" "" "" "" "" "" "" "" ""
Application received Well work started Completion of the drilling process Well Record received Reclamation completed	Date YIMA 34 BY THE ACT OF THE A	Date(s) "" "" "" "" "" "" "" "" ""
Application received Well work started Completion of the drilling process Well Record received Reclamation completed OTHER INSPECTIONS Reason:	Date YIMA 34 BY THE ACT OF THE A	Date(s) "" "" "" "" "" "" "" "" ""
Completion of the drilling process Well Record received Reclamation completed OTHER INSPECTIONS	Date YIMA 34 BY THE ACT OF THE A	Date(s) "" "" "" "" "" "" "" "" ""



WELL NO. C. W. Murphy C-4

API NO. 47 _ 109 _ 0952

FIELD REVIEWED

State of Mest Virginia Bepartment of Mines Gil und Ges Zwisian

Construction and Reclamation Plan

COMPANY NAME Cabot Oil & Gas Corporation of W	V DESIGNATED AGENT David McCluskey
ADDRESS P.O. Box 628, Chas. WV 25322	ADDRESS P.O. Box 628 Chas. WV 25322
TELEPHONE 304-347-1600	TELEPHONE 304÷347-1600
LANDOWNER Simmons Fork Land Co.	SOIL CONS. DISTRICT Southern
Revegetation to be carried out by Com	pany Contractor (Agent)
This plan has been reviewed by	Southern SCD. All corrections
and additions have become a part of this plan	
	4-11-63
	(Date)
MAY 0.3 1985	How Il Barchain
	(SCD Agent)
OIL & GAS DIVISION	(SCD Agent)
DEPT. DF ACCESS ROAD	LOCATION
COMPLICATION DE LA PARTICION DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DE LA CANADA DE LA CANADA DE LA CANADA D	
**STRUCTURE Ditch Relief Cross Drain (A)	STRUCTURE (1)
SPACING Per Plan	MATERIAL
-PAGE REF. MANUAL 2-1, 2-2, 2-3, 2-4	PAGE REF. MANUAL
STRUCTURE Culverts (B)	STRUCTURE Diversion Ditch (2)
SPACING Per Plan	MATERIAL Soil
PAGE REF. MANUAL 2:7, 2:8, 2:9	PAGE REF. MANUAL 2:12, 2:13
STRUCTURE(C)	STRUCTURE Sediment Barrier (3)
SPACING	MATERIAL Straw Bales or Filter Fence
PAGE REF. MANUAL	PAGE REF. MANUAL 2:16, 2:18, 2:19
•	
All structures should be inspected regul	arly and repaired if necessary. All com-
merical timber is to be cut and stacked	and all brush and small timber to be cut
and removed from the site before earth w	ork begins.
TREATMENT AREA T Reveget	ation
TREATMENT AREA I	TREATMENT AREA II
Lime	Lime
or correct to pH 6.5	or correct to pH 6.5
Fertilizer 500 lbs/acre	Fertilizer 500 lbs/acre
(10-20-20 or equivalent)	(10-20-20 or equivalent)
Mulch Hay or Straw @15 Tons/acre	Mulch Hay or Straw @ 1½ Tons/acre
Seed* Ky 31 Tall Fescue 40 lbs/acre	Seed* Ky 31 Tall Fescue 40 lbs/acre
Redtop 5 lbs/acre	Redtop 5 lbs/acre
lbs/acre	lbs/acre
47 1	11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
*Inoculate all legumes such as vetch, to bacterium. Inoculate with 3X the recomm	refoil and clovers with the proper
bacterium. Inoculate with 5% the recomm	mended amount.
PI	AN PREPARED BY David H. M. Chickey
Note: Please request landowner	Cabot Oil and Gas Corporation Of
cooperation to protect new AD	DRESS P.O. Box 628
seedlings for one growing season. Attach separate	
sheets as necessary for	Charleston, WV 25322
comments.	ONE NO. (304) 347-1600

LEGEND

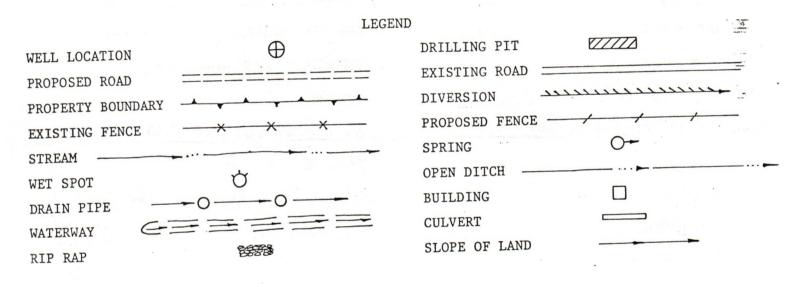
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Matheny 7.5'

WELL SITE \oplus ACCESS ROAD ======

PHOTOCOPY ATTACHED

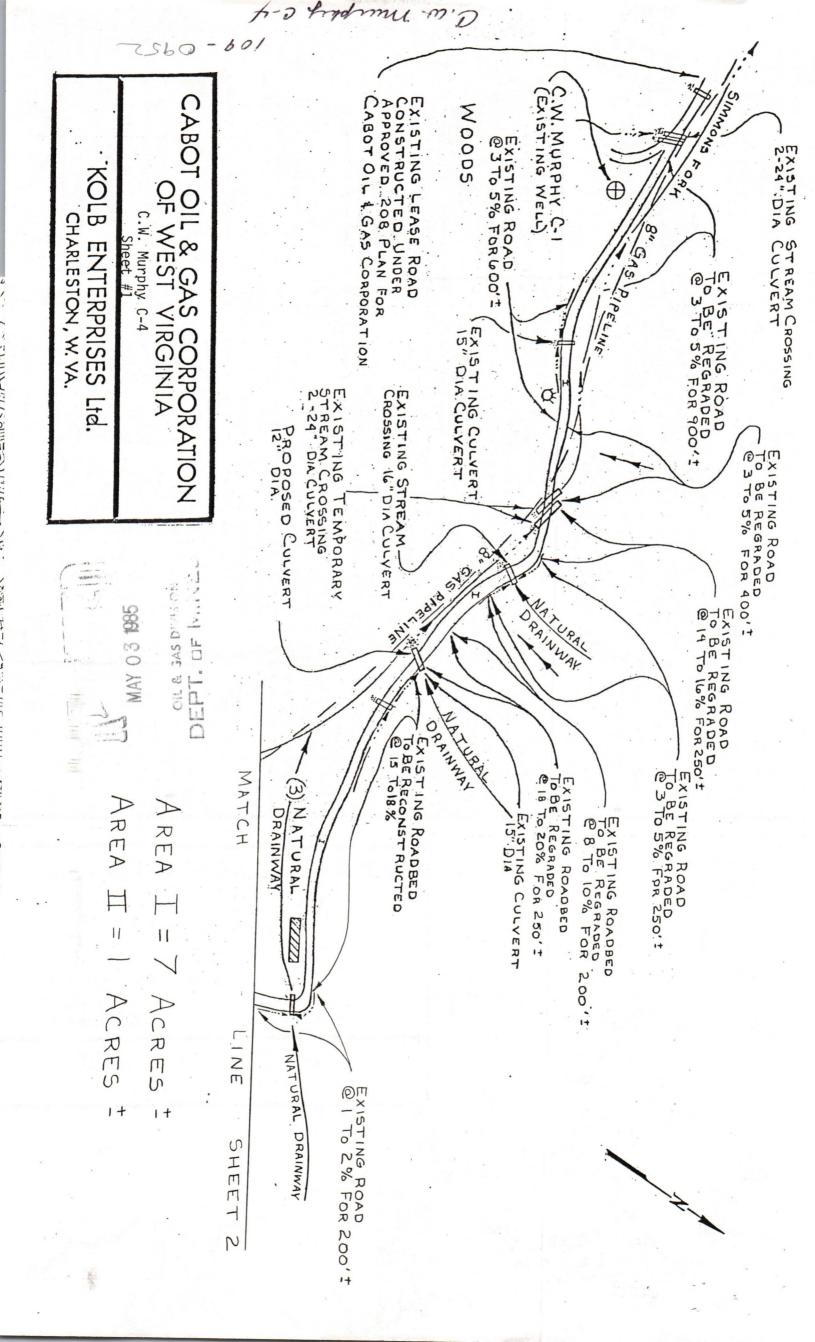
WELL SITE PLAN

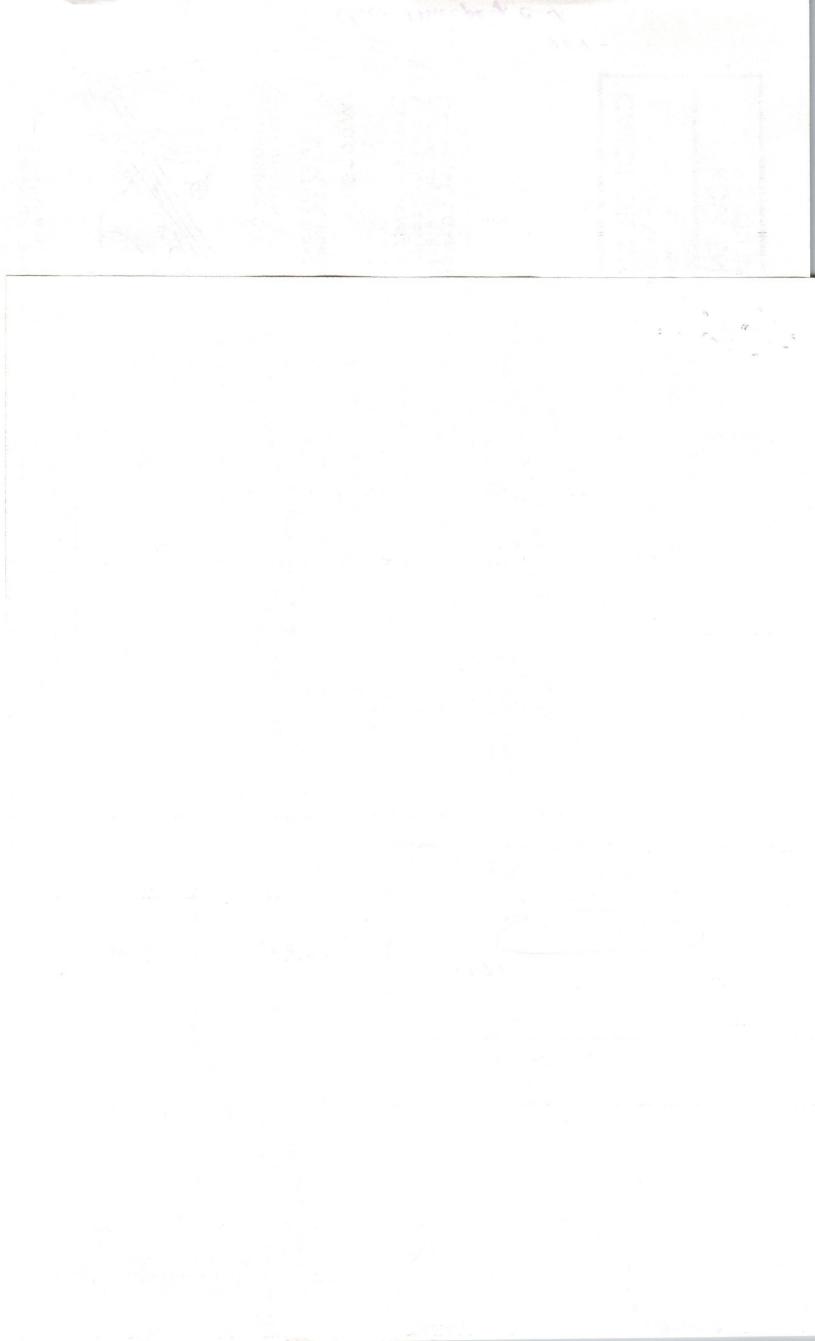
SKETCH TO INCLUDE WELL LOCATION, EXISTING ACCESS ROAD, ROADS TO BE CONSTRUCTED, WELLSITE, DRILLING PITS AND NECESSARY STRUCTURES NUMBERED OR LETTERED TO CORRESPOND WITH THE FIRST PART OF THIS PLAN. INCLUDE ALL NATURAL DRAINAGE.



SKETCH ATTACHED

	The existing portion of access road to the site to be graded, ditches
COMMENTS:	pulled and drains installed where required by field conditions.
	Existing roadbed to site to be reconstructed, ditches pulled and drains
-	installed where required by field conditions.
	Ditch Relief Cross Drains to be installed as an integral part of the
1 -	reclamation process and shall be spaced in accordance with Table I on
_	page 2-4 of the erosion and sediment control manual and shall be based
_	upon the as-built slopes of the final road configuration.
_	





Notary Public, Kanawha County, State of West Virginia

1) Date: <u>January 9</u> ,19 85

2) Operator's

Well No. C.W. Murphy C-4

3) API Well No. 47 - 109 - 0952 State County Permis

STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED	5(i) COAL OPERATOR NOT OPERATED
(i) Name Simmons Fork Land Co.	Address
Address Attn: Alexander Smith, President	1,000,000,000
P.O. Box 356	5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
(ii) Name Peterstown, WV 24963	Name Simmons Fork Land Co.
Address	AddressAttn: Alexander Smith, Presider
	P.O. Box 356
(iii) Name	Name Peterstown, WV 24963 Address
Address	Accress
	5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
	Name
e and the lift to Ala	Address
	Yes Track the end of the second
TC	
	ocuments:
o Smith	well is work,
AIL D D S S M S M S M S M S M S M S M S M S	
61 WNDED WNDED ANL COMPANY Er Smit	TOES ing and
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E E R B B B B B B B B B B B B B B B B B	and the
RECEIPT RECEIPT NO INSURA NOT FOR BO P. O. Bed and No. P. O. Bed and No. P. O. State and No. P. O. Stat	Restricted Delivery Fee Return Receipt Showing to whom and Date Delivered Date, and Address of Delivery Fee Structure of Date, and Address of Delivery Fee Structure of Date, and Address of Delivery Fee Structure of Date of
713-E01-E361.0.972-234.4	12 Million
6) EXTRACTION RIGHTS	PS Form 3800, Feb. 1982///Lincoln. And 1982///Lincoln. And 1982///Lincoln. And 1982///Lincoln. And 1982///Lincoln.
Check and provide one of the following:	continuing contract or contracts by which so cough (4). (See reverse side for specifics.) The oil or gas based upon a lease or leases of flat well royalty or any similar provision
Included is the lease or leases or other I hold the right to extract oil or gas	continuing contract or contracts by which
The requirement of Code 22-4-1-(c) (1) thr	che oil or gas based upon a lease or leases of flat well royalty or any similar provision
7) BOYALTY PROVISIONS	S S
	the oil or gas based upon a lease or leases
for compensation to the owner of the oil or go	as in place in the in the second
to the volume of oil or gas so extracted, pro	oduced or marketed? Yes No y
If the answer above is No, nothing ac	dditional is needed. If the answer is Yes,
you may use Affidavit Form IV-60.	
See the reverse side for line item instr	ructions, and for instructions concerning
the required copies of the Notice and Ap Reclamation Plan.	oplication, plat, and Construction and
The truth of the information on the	
Notice and Application is verified	WELL
and sworm to and the Notice is	OPERATOR CABOT OIL & GAS CORP. OF WV
signed on behalf of the Well Operator	By Daniel & M. Charley
in my County and State by	Its District Drilling Superintendent
David G. McCluskey	Address P.O. Box 628
this 9 day of January , 1985.	Charleston, WV 25322
My commission expires March 5 , 1989 .	Telephone (304) 347-1600

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
 - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- the tract of land is the same tract described in the Application to which this Notice
 applies, partly or wholly depicted in the accompanying plat, and described in the
 Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
C.W. Murphy, et al	Godfrey L. Cabot (COGC of WV)	12.5%	101 408

CURRENT ROYALTY OWNER

Simmons Fork Land Co.

SURFACE OWNER'S COPY

	711370	
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*	1	3/*/
-	de land	THE STATE OF THE S
# 8T.		

1)	Date:	Jani	uary 9		, 19_	85	_
2)	Operator's Well No	C.W.	Murphy	C-5			
	API Well N						_

County

Permit

State

. 1 1085	
JAN 1 1500	STATE OF WEST VIRGINIA
Jrw.	DEPARTMENT OF MINES, OIL AND GAS DIVISION
a management of the second	APPLICATION FOR A WELL WORK PERMIT

	111				A	APPLIC	ATION FOR A WELL	WORK PERMIT			
4)	WELL TY	PE:-A	Oil	/ G	as	X	,				
	-	В (If "Gas",	Productio	n		/ Underground st	orage	/ Deep	_/ Shallow	X
5)	LOCATIO	N: El	evation: _			13 1.					,
			strict:	Ocean		ar te ter that		yoming	Quadrangle: _	Matheny 7	3
6)	WELL OP				a Gas	s Cor	p. of WV) DESIGNATEI	AGENT Dayl	d G. McCLu	skey
	Address). 3ox		2521	00		Address	P.O. Box 628		20
				on, WV		Zi.			Charleston,	25322	(FTF)
8)	OIL & GA Name	S INSPEC	TOR TO	BE NOTI	FIED		9) DRILLING CO	INTRACTOR:	啊声	(1)
	Address	D	O. Dox					Name		<u>-1 60</u>	GEAT
	Address	Br	enton,	WV 24	318	732	-6227	Address		90 =	
10)	PROPOSE	D WELL	WORK:	Drill	X	_/ Dri	ll deeper	/ Redrill	/ Stimulate		
				Plug of	f old		on/ Perforat			MINES	
							in well (specify)			m <	UEU
11)	GEOLOGI	CAL TAR	GET FOR	MATION	,	May	enclitr, sig t	.ime, weir		0,	(C)
	12) Estima 13) Appro	ted depth o	of complet	ed well,	17	20 30	3685feet	1550			
	,pp.o.		a acpens.	110011,		and	Ticia sait,		feet.		χ
	14) Approx				0,0	diid	Is coal	being mined in the	area? Yes	/ No	
	CASING A	IND LORI									
	SING OR BING TYPE			Weight			FOOTAGE INT	TERVALS	OR SACKS	PACKER	.s
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	F 175	
Cond				- "	^			30	10 sks. Nea	Kinds 3	
Coal	water	8-5/8	11	24	X		2030	20301	525 sks. Tea	CIS	
	nediate									Sizes	
Produ	ction	4-1/2	31	10.5	X		36851	3085*	350 sks. or	Depths set	
Tubin	g								as req. by f	ule 15.01	
Liners										Perforations:	
										Тор	Bottom
-										÷	
	-										

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)	For execution by natural persons)	
NAME: Simmon Fork Zand Company		
By Mylander M. Smith	(Signature)	Date:
Its President Date 1/10/85		Date:
Dail Tray & W	(Signature)	



1)	Date:	Jani	uary 9		, 19_	35	_
2)	Operator's Well No.	C.W.	Murphy	C-5			
2)	A DI Well N	47					

County

Permit

State

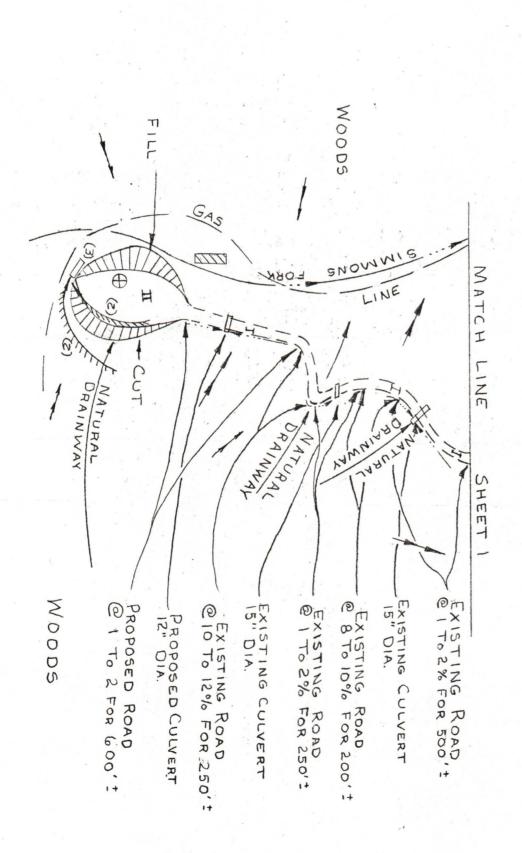
JAN 1 1 1995

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

				-	II I LICA	THOM FOR A WE	LL WURK PERMIT		
4) WELL TY	YPE: A	Oil	/ G	as	X				
	В	(If "Gas"	Production	n		/ Underground	storage	/ Deep	/ Shallow X
5) LOCATIO		levation:		24.7		Watershed:		k of Clear C	
	F 1000	istrict:	Ocean	3		County:	Wyoming	Quadrangle:	14 11 "71
6) WELL OF					s Cor	o. of WV	7) DESIGNATED	m 1	d G. McCLuskey
Addres		O. Box					Address	P.G. Box 62	
ridures			on, WV	253	22		Address	Charleston,	
9) OII & C					- 6-				Cameron Country (
8) OIL & GA		r St.		FIED			9) DRILLING CO	NTRACTOR:	Programme and
	n	.0. Bo					Name	TOTAL CONTRACTOR OF THE PARTY O	NO WITH
Addres	3		. WV 2	1212	722	-6227	Address		3- (0)
	121	encon	, MY C.		132.	0221			. 60
10) PROPOSI	ED WELL	WORK:	Drill	X	_/ Dri	l deeper	/ Redrill	/ Stimulate	00 - 11-11
			Plug of	ff old	formatio	n/ Perfo	rate new formation_		TI D
			Other p	hysical	change	in well (specify)			50. 6
11) GEOLOG	ICAL TAP	RGET FOR	MATION	,	nave	encliff, Big	Lime, Heir		Z S TAR
12) Estim	ated depth	of comple	ted well,			Joss feet			S.
13) Appro	oximate tra	ta depths:	Fresh, _		0, 49	icct. Sai	1550	feet.	
14) Appro	ximate coa	al seam der	oths:	510	and l	Jd4 Is co	al being mined in the	area? Yes	No_ ^
15) CASING	AND TUB	ING PRO	GRAM					200	
CASING OR	11	SPEC	CIFICATIONS			II FOOTAGE	INTERVALS	CEMENT FILLUP	PACKERS
TUBING TYPE	Ci	1	Weight		1		1	OR SACKS	PACKERS
Conductor	Size 16"	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	The CTS
	1.0			^		33	- 00	10 3K3. 1386	t Kinds S
Fresh water	3-5/8	110	24	X		2030	2030	525 cke 50	l. rre
Coal	13-5/1	1	2.7	^		1.000	2030	525 sks. Ne	Sizes
Intermediate	4-1/2	11!	30 6	V		35851	2021	250 242 25	
Production	4-1/6		10.5	X		5000	35851	350 sks. or	Depths set
Tubing								as req. by :	10.01
Liners									Perforations:
									Top Bottom
			INIC	rnuca	CIONE T	O COAL OPERAT	OR OWNER OR !	Boons	
			INS	IRUCI	IIONS I	O COAL OPERAT	OR, OWNER, OR I	LESSEE	
	The	named coa	l operator,	coal o	wner(s),	and coal lessee are h	ereby notified that ar	ny objection they wis	h to make or
						filed with the Depar	tment of Mines within	n fifteen (15) days aft	er the receipt
	of this Ap	plication	by the Dep	artmen	ıt.				_
		The follow	ving waive	r must	he comr	leted by the coal or	perator and by any co	ol owner or seal last	
		who has r	ecorded a	declara	tion und	er Code 822-4-20 if	the permit is to be is	sued within fifteen (1	see
			e filing of				the perime is to be is	saca within inteen (1	.5)
						WAIVER			
The undersigne	ed coal one	rator			/ owner	X	/ lessee	/of the ex	oal under this well location has
examined this pro	oposed wel	l location.	If a mine	map ex	ists which	h covers the area of	the well location, the	well location has bee	n added to the mine map. The
undersigned has	no objectio	on to the w	ork propo	sed to b	e done a	t this location, prov	ided, the well operate	or has complied with	all applicable requirements of
the West Virginia	a Code and	d the gover	rning regul	ations.				F2	-pp.neasie requirements 01
							Simmer	Tool 7	1/2
							Junnon,	rove po	and company
		, ,,	,	21			11.1.	la mi	and lompany

CABOT OIL & GAS CORPORATION OF WEST VIRGINIA C.M. Murphy C-4 Sheet 2

KOLB ENTERPRISES Ltd.



P 591 457 1.52

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

	(See Hereite)		
-517	SenttoSimmons Fork Lan Attn: Mr. Alexander	d Co. Smith	
3-403	Street and No. 356	2	
0.198	P.O., State and ZIP Code Peterstown, WV 2496	63	
G.P.	Postage	s D	
* U.S.G.P.O. 1983-403-517	Certified Fee	75	
	Special Delivery Fee	3	
	Restricted Delivery Fee	4	
	Return Receipt Showing to whom and Date Delivered	70 €	
0	Return receipt showing to whom, Date, and Address of Delivery	3	
	Date, and Address of Delivery TOTAL Postage and Fees	s	
1	Postmark or Date \$88		
_			

MAY OD 1985

P 591 457 152

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

Street and No. P.O. BOX 356 P.O., State and ZIP Code Peterstown. WV	249	63	
Peterstown, WV Postage	LTJ	\$	
Certified Fee			75
Special Delivery Fee			
Restricted Delivery Fee			
Return Receipt Showing to whom and Date Delivere	d		70
Return receipt showing to will Date, and Address of Deliver	nom, ery		
TOTAL Postage and Fees		\$	
Postmark of Date			

MAY 03 1985

OIL & GAS DIVISION
DEPT. OF MINES

C.w. Murphy-C-4 109-0952

IV-35	A PROPER
(Rev 8-81))	CETAL
TITE.	CEIVED MAY 2 0 1985

OIL & GAS DIVISION DEPT. OF MINES

State of Mest Wirginia Bepartment of Mines

Bil und Gas Bivision

Date	May	15, 1	985	
Operato Well No		;-4		. 117.19
Farm C	.W. Mu	rphy	U. T.	i Otopa
API No.	47 -	109	- (0952

(Continue on reverse side)

WELL OPERATOR'S REPORT

OF FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 2012 GL Watershed S	immons Fork	of Clear	Creek	
District: Oceana County Wyon	ming	Quadrangl	e Mathen	y 7½
Land to the term of the constraint of the constr				
COMPANY Cabot Oil & Gas Corporation of WV				Tenet ye fark
ADDRESS_P.O. Box 628, Charleston, WV 25322	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT David G. McCluskey	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 628, Charleston, WV 25322 SIMMONS FORK Land CO. SURFACE OWNER Attn: Mr. Alexander Smith, Pres.	Size 20×16	50'	FOL	10 TH
ADDRESS P.O. Box 356, Peterstown, WV 24963	Cond.	Two seeds to make the	50'	5 sks
MINERAL RIGHTS OWNER Same as above	9 5/8	272'	272'	50 sks
ADDRESS	8 5/8	2056'	2056'	510 sks
OIL AND GAS INSPECTOR FOR THIS WORK Arthur	7	2030	2030	510 SKS
St. Clair ADDRESS Brenton, WV 24818	5 1/2			
PERMIT ISSUED January 11, 1985	4 1/2	2727.1	2727.1	17.000
DRILLING COMMENCED 3/26/85	3	3721'	3721'	200 sks
DRILLING COMPLETED 4/4/85	x2 1-1/2	3604	3604'	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners	Nine .	•	
GEOLOGICAL TARGET FORMATION Weir, Big Lime, Ra	avencliff We	ir 3625-3	650, Rv. 2	2170-2212
Depth of completed well 3744 feet 1				
Water strata depth: Fresh 30 & 235 feet;			the first of the factor of the	
Coal seam depths: 44-48', 69-70', 115-119'	array of the last to the last			area? NO
OPEN FLOW DATA		We	eir 3628-3	3636'
Producing formation Weir & Big Lime	Pay	zone dept	hBL 3138-	-3374 feet
Gas: Initial open flow Mcf/d	Oil: Init	tial open	flow	Bb1/d
4 hr. Final open flow 696 Mcf/d	Fina	al open fl	Low	Bb1/d
Time of open flow between init:	ial and fir	nal tests	ho	
Static rock pressure 665 psig(surface	e measureme	ent) after	hou	rs shut in
(If applicable due to multiple completion-)			
Second producing formation Ravencliff	Pay	zone dept	h 2176-22	210 feet
	Oil. Trit	cial open	flow	Bb1/d
Gas: Initial open flow Mcf/d	OII: HILL			
그 하고 하는 하는 하는 것들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은				Bb1/d

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perf Weir from 3628-3636' (12 holes). Dump 250 gal 15% HCL & breakdown perfs @ 1400 psi w/N₂. ISIP after breakdown 1250 psi. Treated w/50,000# 20/40 sand. Max concentration 1.5#/gal. AIR 6.5 BPM, N₂ 18,500 Scf/min. ATP 2000 psi. Max 2100 psi. T/F 186 bbls. S/1 174 bbls. Total N₂ 580,000 Scf. ISIP 1750 psi, 15 min 1350 psi. R/U McCullough to perf Big Lime. Perf Big Lime from 3138-3374' (11 holes). Pump 500 gal 15% HCL. Breakdown 950 psi. ISIP after breakdown 1100 psi. Treated w/5000 gals gelled acid @ 6 BPM & 5000 gals gelled acid @ 2 BPM w/1000 Scf/min N₂ assist. Total N₂ 120,000 Scf. AIR 4 BPM. ATP 1100 psi. ISIP 1600 psi, 5 min 1500 psi, 10 min 1425 psi, 15 min, 1350 psi. Perf Ravencliff 2176-2210' (12 holes). Set arrow drill pkr. @ 2250'. Dumped 250 gal 15% HCL. Breakdown pressure 1900 psi. ISIP after break 1900 psi. Treated with 75 Q foam & 70,000# 20/40 sand. Max concentration 2#/gal. AIR 5.5 BPM, 8,065 Scf/min. ATP 2800 psi, max TP 2950 psi. T/F 329 bbls, SLF 252 bbls. ISIP 2400 psi, 5 min 2350 psi, 10 min 2200 psi, 15 min 2100 psi.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	0	45	H ₂ O @ 30' 1/2" stream
Shale Shale	45	138	Cóal 44-48', 69-70', 115-119',
Sand	138	185	250-255'. H ₂ 0 @ 235' 1/2" stream
Shaley Sand	185	265	250-255'. H ₂ 0 @ 235' 1/2" stream
Sand	265	320	
Shale	320	355	Control of the Control of the Control of
	355	370	The second secon
Shaley Sand	370	435	
Shale	435	480	the transport of the company
Sand	480	560	The English Control of the Control o
Shale	560	620	the state of the same of the s
haley Sand	620	720	San All Control of the Control of th
Sand	720	765	and the second control of the second control of the second
Shale	765	800	10.000 (10.000) (10.000) (10.000) (10.000) (10.000) (10.000) (10.000) (10.000) (10.000) (10.000)
	800	975	and the second s
Shaley Sand	975	1050	The second secon
Shale	1050	1075	
and	1075	1260	
Shaley Sand	1260	1315	The second of th
Sand	1315	1370	A A P P COMPANY OF THE PARTY OF
Sandy Shale	1370	1505	and the second section of the second
and	1505	1540	
Sandy Shale	1540	1670	and the second of the second second
chalan Cand	1670		
Shaley Sand		1990	
Shale	1990	2045	
haley Sand	2045	2095	0
Shale Dk. Grey Mediu		2190	Gas ck. @ 2071': no show
Ravencliff Sand White Hard	2170	2212	and the second of the control of the second
Avis Limestone Grey/red Hard	2212	2250	
Sandy Shale Red/grey Soft	2250	2805	Gas ck. @ 2254': 267 M
imestone Grey Hard	2805	2825	Gas ck. @ 2816': 304 M
Shaley Sand (Maxton) Grey Mediu		2875	
Shale Grey Soft	2875	2915	
little Lime Grey Hard	2915 ,	3085	Francisco de la constanta de l
Shale Grey Soft	3085	3100	Gas ck. @ 3067': 292 M
Big Lime White/Tan Hard	3100	3430	Gas ck. @ 3224': 298 M
Shale Red Soft	3430	3510	Gas ck. @ 3319': 340 M
Shale Grey Soft	3510	3625	Gas ck. @ 3539': 377 M
Weir Sand Grey Mediu		3650	
Shale Grey Soft			as necessary) 462 M

DTD 3725' Note: Al formation tops measured from K.B. (10' above permanent datum)
LTD 3744' CABOT OIL & GAS CORPORATION OF WEST VIRGINIA

By: David & M. Clusky

Date: May 15, 1985

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including well, encountered in the drilling of a well."

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORT

DEPT. OF MINES

0il or Gas Well Yas

			(KII	46)
Company Cabot. Oil & Sosofu	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address Charleston, W.U.	Size			
Farm CW. Muysky	16	49		Kind of Packer
Well No.	10			Size of
District Oceans County Wy DML	81/4		-	
Drilling commenced 3-26-85	65/8			Depth set
Drilling completed @ Total depth 9/5'	5 3/16			Perf. top
Date shotDepth of shot	2			Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEME	NTED	SIZE	No. FTDate
Rock pressure lbs hrs.	NAME OF SEI	RVICE COMPA	NY	* * * * * * * * * * * * * * * * * * *
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT 1/5	FEET 60 INCHES
Fresh water 235 / feet feet feet				FEETINCHES
Salt water <u>feet</u> <u>feet</u>	FEET	INCH	ES	FEETINCHES
Drillers' Names Century Dry - Reg	#2		48.0	
Remarks: Soop in Creek bet possibility comming to 16" hole & Reom to 2	ou p	it th	leik	
possisbility comming	from a	Dry hot	e we	elf pull
16" hole I Reom to 2	85 Run	1/3/	9 Cours	est to
Senface. 3-28-85				
3-428-83		Med	WCS	1900) mall 7

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

MOTERVIO 240 24 10 . INSPECTOR'S PLUGGING REPORT

Permit No.	10 11	(0)			We	11 No	
The state of the s	7	an North College Carl Publisher (No. 1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999) (1999)		ADDRESS	Committee of the commit		
iner	Loca	ition	Amount	Packer	Location		
PL	UGB USED AN	D DEPTH PLACED		BAIDGES	CASIN	G AND TU	BING
CEMENT-THIC	CKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
	4						
A STATE OF THE PARTY OF THE PAR							
	Y						
				Annual and the same and a second			
illers' Names							
marks:							

I hereby certify I visited the above well on this date.

DATE

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPE	CTOR'S WELL	REPOR	IPT. of	MINES
1/10-109-0952 fres.	Laster Cog.		Oil or	Gas Well Nas
Company Cabot Oil Los of	Pull CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address Charleston, W.	Size	100	,	Land Mayers
Farm C.W. Mullephy	16	49".	<u>-ts</u>	Kind of Packer
Well No. #4	13	285-	Ct.s.	Size of
District Oclana County Uly				
Orilling commenced 3-27-85	65/8			Depth set
Orilling completed Total depth	715.			Perf. top
Date shotDepth of shot	2			Perf. bottom
nitial open flow/10ths Water in_	Inch Liners Used			Perf. top
pen flow after tubing/10ths Merc. in	Inch			Perf. bottom
'olume	_Cu. Ft. CASING CEME	NTED	SIZE	No. FTDa
ock pressurelbs	hrs. NAME OF SEF	RVICE COMPA	NY	
bbls., 1s	t 24 hrs. COAL WAS EN	COUNTERED	AT/15	FEET 60 INCHE
resh water 235 feet.	feet 490 FEET	60' INCH	ES	FEETINCHE
ilt waterfeet	feet FEET	INCH	ES	FEETINCHE
rillers' Names Century Dig C	D Reg #2			
used 50 Say Cl	aus A. Center 5	7 Ca Cla	1 Cell	Pake
lesh Water Horgan	Sheam !	Comi	, fre	Degr.
resh Water Lorgan.	at 235. S	oop en	Can	
eun 285' of 11" en 3-29-85 Cm+ plug De BATE Procede	n Soap	100		
Sun 185 of plug De	own 8: P.M. Rig	willbe	down	8 h. woc.
3-29-85. Parada	o Soal!	Stral	2 ru	St. Clairs



DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

MOISIVE 240 & INSPECTOR'S PLUGGING REPORT

ermit No.				We	II No.	
OMPANY			ADDRESS	Trade Industrial and Control of the American State of State of the Control of the		
ARM		DISTRIC	T(COUNTY		
illing Material Used						
ner Loc	eation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
	erent (all friends of the foreign consistence yes also be on a consistence (all consistence		AA Marka And Da Congress of the Congress of th			
						_
W						
llers' Names		1				-
narks:						
I	hereby certify I vis	sited the above	ve well on this date.			
DATE	The second of th	the above	wen on this date.			

DEPARTMENT OF MINES





OIL & GAS DIVISION

INSPECTOR'S WELL REPORTETT. OF MINES

1.4	NSPECTOR	R'S WELL	REPOR	TPI. OF	IAIIIAE
VIG-109-0932	Status	- Progres	es .	Oil or	Gas Well Los
Company Cabot Oils	Yas	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address Charleston, U	W.	Size			
Farm C.W. Mur phy		16	49'-	CH	Kind of Packer
Well No. 24		13	285°C	S	Size of
District Oceana Count	regomes	81/4			Size of
Drilling commenced 3-27 -	85	65/8			Depth set
Drilling Total	depth 1922	5 3/16 auc Salf	7		Perf. top
Date shotDepth of	shot	2			Perf. bottom
Initial open flow/10ths	Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths	Merc. inInch				Perf. bottom
Volume	Cu. Ft.	CASING CEME	NTED	_SIZE	No. FTDate
Rock pressurelbs	hrs.	NAME OF SER	VICE COMPA	NY	
0:1	_bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT 470	FEET 6 INCHES
Fresh water 235 feet_	feet	1065 FEET	36 + INCH	ES //5	FEET 60 INCHES
Salt waterfeet	feet	FEET_	INCH	ES	FEETINCHES
Drillers' Names Century	y Co. N	ig. #2			
Remarks: Dry at. 192	2 - the	is dolo	Cosei	y po	ent
at 2060' of 8% of Ret holds Creek) but a J-85 Should	ing So.	me for	In Cs	0000	eci
auch) but i	& Clean	ig up.	A. a		
1-85 Should	Run . 8	of the s	Mal	2 Sauce	Parally to
DATE			3 10	0	DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY			ADDRESS		The same of the sa	Control Contro
ARM		DISTRIC	Γ	COUNTY		
illing Material Used						
iner Loc	ation	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOS
*						
				2. dr. Sel		
4	or frequencia Albert str. in a work draube what op govern appearative optivisgening de govern rigging					
1						
illers' Names	ne describer entre de descripte ann all des describer alle des de la company de la company de la company de la					
3						
marks:					1	AND THE PERSON NAMED OF THE PERSON

DEPARTMENT OF MINES





INSPECTOR	'S WELL	REPOR	L & GAS DIV	VISION VINES
199-109-0952 Cool FU	John Cay			Gas Well
Company Cobot Oil & Yos	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address Charleston W.U. Farm C.W. Murphy	Size	49'	CKS	Kind of Packer
Well No. C-4 District Oceana County WYO	13	285	cts ctc	Size of
Drilling commenced 3-22-85	6%		7.3	Depth set
Drilling completed Total depth	3			Perf. top
Date shotDepth of shot	Liners Used			Perf. top
Open flow after tubing/10ths Merc. in Inch VolumeCu. Ft.	CASING CEME		S SIZE 20	Perf. bottom
Rock pressure lbs. hrs. Oil bbls., 1st 24 hrs.	COAL WAS EN		115	FEET 60 "INCHES
Fresh water feet feet Salt water feet feet	FEET		HES	FEET INCHES
Drillers' Names Century Dig Co-	#2,			apliane)
Remarks: cessed. 3 Centragors - Green Baskels. cement Baskels. used 510 Sof neet Centragors	ush She ment. 3.	2 5 d	insect,	and Celffala.
Broke cuculation with -2-85 Plug down	145 BB	o A.m th	us de le	DISTRICT WELL INSPECTOR

Form 26 2/16/82

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY		ADDRESS								
			C							
					1.0					
Filling Material Used				1000						
Liner Loc	eation	Amou	int Packer	Loc	ation					
	ND DEPTH PLACED	Amou	BRIDGES	T	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO	BING				
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	CASING AND TUBING RECOVERED SIZE L						
OLIMEIT THIORNESS			0 000							
						1.0				
				1-8						
				1						
				0.7	3					
1000										
					A CONTRACTOR OF THE PARTY OF TH					
						N. Territo				
A TANK THE RESERVE TO THE PARTY OF THE PARTY										
					S many					
Drillers' Names		- 10 CM	The control of the co							
Remarks:										
Remarks.										
	I hereby certify I vi	sited the above	well on this date.							
DATE										

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORDEPT, OF MINES

1110:109-0952			0:1	Con Wall San
Company Called Of S. of Oll . Casing Dylling . Casing well Las company Called Of S. of Oll . Casing and District Oceans . County Wyom Interest . Size of . Size of . District Oceans . County Wyom Interest . Size of . District Oceans . County Wyom Interest . Size of . District Oceans . County . Wyom Interest . Size of . Depth set . District Oceans . County . Wyom Interest . Size . Other . Depth of she . Depth				
(abot 98.1 1 (1)11.	CASING AND	USED IN DRILLING		PACKERS
Address Charleston W. U.	Size			and the state of the
C102 munh	16	39' C	4	Kind of Packer
Well No. # C 4	13	285 C	mts	Size of
District Oclana County Wyom W	1	2045	CKS	5.50
Drilling commenced 4-26 - 85	65/8			Depth set
Drilling completedTotal dept 3 75	53/36_ 5 seed 3_			Perf. top
	2			Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing /10ths Mere in Inch				Perf. bottom
			/	olebulen Date
Oilbbls., 1st 24 hrs.	COAL WAS E	NCOUNTERED	AT 235	FEET 60 INCHES
Fresh water 285' feet feet	490 FEET	60 INCH	HES	FEETINCHES
Salt water feet feet	FEET	INCI	HES	FEETINCHES
Drillers' Names Century Dry Co.	Rig. #	2		- Sections
Remarks: Road & On	locate	on the	is do	E
found Rigs stocked a	ut,	- ayo-	0955	- of
this Pm. Dozer wo	Dalla C	a this	no time	Conjobilon
4-8-85 seconds was		Stell	WC St	DISTRICT WELL-INSPECTOR

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY	3 (X) (X)	ADDRESS							
FARMDIS									
711til	4.439	_ District		1 4 6 7 1	No.				
Filling Material Used				275					
			The state of the s	7/1/1/		<u> </u>			
Liner Loc	eation	Amo	ount Packer	Loc	cation				
PLUGS USED A	ND DEPTH PLACED	and the	BRIDGES	CASIN	G AND TU	JBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST			
	735 34		11/1/2000 2002		A P. T.	(th)			
				11-14					
			at he = one						
					and the second	1327 331			
				er Theren					
						1 1 3			
				All I was a second		Langi is			
				187	No.				
						12			
A Commence of the State of the		2000							
	11								
1300	11								
Orillers' Names					A	<u> </u>			
	278), 784			THE STATE OF THE S					
Remarks:									
	horoby contifu I aid	ited the ab	well on this data						
DATE	hereby certify I visi	ned the above	wen on this date.						

06.11

Colot. Notefoil

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORTED. OF MINES

199-109-8952 June	l Refer	sed)			Nas
Company Obol Oel Esta Caping and Depth In the Method Packers Address Charlester, W. Size 16. Kind of Packer. 18. In Size of Size of Depth set. Drilling commenced S 27 85 6% Depth set. Drilling commenced S 27 85 716. Drilling commenced S 27 85 6% Depth set. Depth of shot. 2 Perf. top. Date shot Depth of shot. 2 Perf. bottom Initial open flow /10ths Water in Inch Open flow after tubing /10ths Merc. in Inch Volume Cu. Ft. CASING CEMENTED SIZE No. FT. Rock pressure Ibs. hrs. NAME OF SERVICE COMPANY Oil bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT FEET INC	(ERS				
Charleston (1)11	Size				
Farm Musphy C-4				Kind of Pac	ker
Well No. C~4				Size of	
				Donth set	
0 3.01				Depth set_	
	/que			Perf. top	
	CASING CEME	NTED	SIZE	No. FT	Date
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEET	INCHES
Fresh waterfeetfeet	FEET	INCH	ES	FEET	INCHES
Salt water feet feet	FEET_	INCH	ES	_FEET	INCHES
d of ale	Right	2			z fragol
Remarks: Refuse				,	
no work com	neva a	on h	Realeur	uoteon	(
Rood & Sedemotion en	Bod	Perede	lion	0	
will notify Coboi	* Dep	aprelle	the	7	a \
8-21-85 will loke (orafles	tell	Sauce ?	DISTRICT WELL	INSPECTOR

Form 26 2/16/82

JUN 3 6 138

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

MOISIVID 240 & MINSPECTOR'S PLUGGING REPORT

OMPANY		1 1	ADDRESS		1	
ARM	and the second second		C			
illing Material Used						
iner Loc	ation	Amount	Packer	Loc	cation	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	IBING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
			1111/10			6
					2 7 2 2 2	
					*	
			LICES.		,	
			The second secon			
			ind Ingressy :			1 mage
- 18 38 T						
				-	gales) c	LS WOOL
	4/4.942	2.39,9 1,0	SEAN CONTRACTOR			
PRIAME REPORT OF THE PRINCIPLE OF THE PR			CONTRACTOR SERVICES			
Orillers' Names						
					er agent and a second	
Remarks:						
			Client Mars			
	hereby certify I vis	sited the above we	ll on this date.			
DATE						

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	_47- 109	_ 0952	
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGP	N/A	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	Section of NGP	Category Code	
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Cabot Oil & Gas Con Name P. O. Box 628 Street Charleston City	rporation of W.Va. WV 25322 State Zip Code	000728 Seller Code
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Oceana Field Name Wyoming County	WV State	
(b) For OCS wells:	N/A Area Name Date of Lease: Mo. Day Yr	Block Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	C. W. Murphy C-4	OCS Lease Number	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	• N/A		
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tennessee Gas Pipe	line Co.	018629
(b) Date of the contract:		1, 0, 0, 2, 8, 0, Mo. Day Yr.	Buyer Code
(c) Estimated annual production:	and and designed the second	50MMcf.	100 100
	(a) Base Price (b) (\$/MMBTU)	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)			
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)			
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency MAY 2 1 1985 Date Received by FERC	I. Baird Whitehead Name N. Ball Whitehead Name Nam	Regional M Drilling & Title	anager Production

DEPARTMENT OF MINES, OIL AND GAS DIVISION JUN 14 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: May 21 ,19 85	8150	-	AGENCY USE ONLY
Applicant's Name: Cabot Oil & Ga	s Corporation of WV	WELL DET	TERMINATION FILE NUMBER
Address: P. O. Box 628		850521	-1030-109-0952
Charleston, WV	25322	1	
Gas Purchaser Contract No. GS	C151	Use Above F Communicati	ile Number on all ons Relating to This Well
	/2/80		
(Month, day	A		
First Purchaser: Tennessee Gas I	7627 Pipeline Company	Designated Age	ent: H. Baird Whitehead
Address: P. O. Box 2511		Address:	P. O. Box 628
(Street or P.O. Box) Houston, TX 7			Charleston, WV 25322
(City) (State FERC Seller Code 000728		FERC Buyer Co	ode 018629
NAME AND TITLE OF PERSON TO WHO BE ADDRESSED:	M QUESTIONS CONCERN:	ING THIS APPLIC	I IAHZ NOITA
Name: Ed Hindman			egulatory Assistant
(Print Signature:	Ed 41-0	-	(Title)
Address: P. O.	Box 628		
(St Charl (Ci Telephone:	ty) (State) 304) 347-16 (Phone M		
(Certificate of Proof Copy sent to Purchaser by Cer	of Service to Purchartified Mail <u>P753 2</u> NGPA Catagory App	224 785	on <u>May</u> 21, 1985 .
NGPA SECTION/SUBSECTION			
102 New Natural Gas 102-2 2.5 Mile Test 102-3 1000 Foot Deeper 102-4 New Onshore Reserved 103 New Onshore Production Well X 103 New Onshore Production	voir	108 Stripper 108- 108-1 108-2 108-3	Enhanced Recovery
107 High Cost Natural Gas 107-0 Deep (more than 1	F 000 5	AG	SENCY USE ONLY
107-1 Geopressured Brine 107-2 Coal Seams 107-3 Devonian Shale	e		
107-5 Production enhance 107-6 New Tight Formation 107-7 Recompletion Tight	on		
RECEIVEM		QUA	LIFIED
MAY 2 1 1985			
OIL & GAS DIV. DEPT. OF MINES			
Date Received	of the	Dete	rmination Date



FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)		_47_ 1	09 _ 095	2	
2.0 Type of determination being sought: (Use the codes found on the front of this form.)		107T Section of	S Weir	_ime 6	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)			£.249.06	Constitution of the second second second	le
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Cabot Name P. O.			on of W.Va.	000728 Seller Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Ocear Field No Wyom	ame	- 1, 1 18 00	State Zip Code WV State	
(b) For OCS wells:	Area Na		/A	Block Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	C. W	. Murphy C-		OCS Lease Number	***
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)		N/A	A		
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tenn	essee Gas P	ipeline Co).	018629
(b) Date of the contract:			1, 0, 0, Mo. Da	2,8,0	Buyer Code
(c) Estimated annual production:	(X) (A) (A) (A)		50	MMcf.	
70.00		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)					
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)					
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency MAY 2 1 1985 Date Received by FERC	Name Signature May 2	rd Whitehead 1, 1985 Cation is Complete	bild	Regional Drilling Title (304) 347-1600 Phone Number	Manager % Production

JUN 14 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: May 21 ,19 85	8150 AGENCY USE ONLY TE
Applicant's Name: Cabot Oil & Gas Corpo	
Address: P. O. Box 628	
Charleston, WV 2532	850521 -1076-109-0952
Gas Purchaser Contract No. GSC151	Use Above File Number on all Communications Relating to This Well
Date of Contract 10/2/80 (Month, day and ye	
7	0127
First Purchaser: Tennessee Gas Pipelin	ne Company
Address: P. O. Box 2511	Address: P. O. Box 628
(Street or P.O. Box) Houston, TX 77001	Charleston, WV 25322
(City) (State) FERC Seller Code 000728	FERC Buyer Code 018629
NAME AND TITLE OF PERSON TO WHOM QUEST BE ADDRESSED:	STIONS CONCERNING THIS APPLICATION SHALL
Name: Ed Hindman	Regulatory Assistant
Signature: (Print)	Hidnan (Title)
Address: P. O. Box 6	
(Street of Charleston	P.O. Box) WV 25322
Telephone: (City) (304 (Area Code	(State) (Zip Code) 347-1600 (Phone Number)
(Certificate of Proof of Service Copy sent to Purchaser by Certified NGP)	vice to Purchaser) Mail P753 224 785 on May 21, 1985 A Catagory Applied For
NGPA SECTION/SUBSECTION	
102 New Natural Gas 102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test 102-4 New Onshore Reservoir 103 New Onshore Production Well 103 New Onshore Production Well	108 Stripper Well Natural Gas 108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Buildup
107 High Cost Natural Gas	
107-0 Deep (more than 15,000 for 107-1 Geopressured Brine 107-2 Coal Seams 107-3 Devonian Shale 107-5 Production enhancement X 107-6 New Tight Formation (Weild 107-7 Recompletion Tight 107-7 Recompletion Tight 107-7 Recompletion Tight (Weild 107-7 Recompletion Tight 107-7 Recomplet	ir.Biglime.Berea)
RECEIAED	QUALIFIED
MAY 2 1 1985	
OIL & GAS DIV. DEPT. OF MINES	

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date	May	21	19_85
Operato Well No	c. C.	W. Mur	phy C-4
API Wei	-	109 County	- 0952

WELL CLASSIFICATION FORM: HIGH COST GAS WELL—NEW TIGHT FORMATION

NGPA Section 107

-			DESIGNAT	ED AGENT	H. Baird Wh	itehead	
. •			ADDRESS		P. O. Box 6	28	
					Charleston,	WV 25322	
WELL OPERATOR Cat	oot Oil and Gas	Corp.of W. Va	. LOCATION	Elevatio	n 2012'		
ADDRESS P.	O. Box 628	*	Waters	hed Simm	ons Fork of	Clear Creek	
Cha	arleston, WV 2	5322	Dist.	Oceana co	uney Wyoming	Quad Ma	theny 7
GAS PURCHASER Ten	nessee Gas Pipe	eline Co.	Gas Purc	tase			
ADDRESS P.	O. Box 2511		Contract		GSC151		
Hou	iston, TX 7700		Meter Ch. Date of	Contract	N/A 10/2/80		
* * *							
				w w	W 11	12 12	2
Date surface dril	ling began:	3/26/85					
Indicate the bott	om hole pressure	of the well and	explain h				
$BHP = P_1 + P_1(\epsilon$	GL/53.34T_1)	P1 = 430/68	OPSIA	ВН	P = PSI	À	
		T = 82/94 G = 0.64			454/739		
		G = 0.64			,		
		L = 2193/3	387				
	•						
		AFF	DAVIT				
I,	Paul L. Gebhard	, hav	ing been f	irst sworm	according to 1	aw, state that	
drilling of the well	for which this de	etermination is	sought was	begun on o	T after July 1	6, 1979, the gr	surrace is bei
produced from a des cation which is inco	onsistent with a co	onclusion that t	he well qua	lifies as	a high cost na	t described in tural gas/well	the appl
				ta, 1	Lock	a. A	
			-				
STATE OF WEST VIRG	INIA.						
COUNTY OF _ Kanaw							
	,						
Ι	Lorene Miller	, a Nota	ry Public	in and for	r the state as	nd county afor	esaid.
do certify that	Paul L. Gebhard	, whose name	is signed	to the w	riting above.	bearing date	,
the 21st day of	May	. 19 ⁸⁵ . has a	cknowledge	d the same	before me,	in my county	
aforesaid.							
Given	under my hand and	d official seal	this 21st	day of	May	19 85	
My ter	under my hand and	res on the 5th	day of _	March	, 19 89		
					` `	A	
			_	Hore	ene Mil	len	
[NOTARIAL SEAL]				Not	ary Public		

DEPARTMENT OF WERRY OIL AND GAS WELLS DIVISION

IR-21 Ceeyo -109-

OBSINSPECTOR	'S WELL	REPOR	Т	
NUD-109-0952#4	-10			Gas Well
Taus	al Kase	eesoe!	(KIN	D)
Company Cabol Of G. SUNV.	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address Charleston W.	Size			The state of the s
Farm Markley	16			Kind of Packer
Well No. C - 45 C - 5	10			Size of
District Oclasia County Weform	65%			Depth set
Drilling commenced	5 3/16			Depth set
Drilling completedTotal depth	3			Perf. top
Date shotDepth of shot	Liners Used			Perf. top
Initial open flow/10ths Water inInch Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.				No. FTDate
Rock pressure lbs. hrs.	NAME OF SEF	RVICE COMPA	INY	
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEETINCHES
Fresh waterfeetfeet	FEET	INCE	IES	_FEETINCHES
Salt water feet feet	FEET	INCE	IES	FEETINCHES
Drillers Names Lale Bros Real	alimali	Ou		
Remarks:	1 0	/	1.	Ac.
Connot pass the	es Kook	y or h	10col	como.
Connot pas the gross the gross has not by evill enspe	Starte	to	birow	_
evell easpe	ent a a	la la	e do	L
9-18-85 DATE		1 2 1	yan C	
				DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS			
FARM		DISTRICT	C	OUNTY		
			The Aller of the State of the S			7737
Filling Material Used						
iner Loc	cation	Amou	int Packer	Loc	ation	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TUE	ING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
			SUM CHIEF			
			We have			
			11129			
1 14 1				in the same of the		199.00
			A SECTION OF STREET			
				ad 1670	ignida. I re	
	1000	71-24-2				
		1 3 3				
Drillers' Names						
	3/77	4	3			
Remarks:						
	I hereby certify I vis	ited the above v	well on this date.			
DATE						

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE GAS [Shallow]	API# 47- 109 - 0952 (1-11-8
ELEVATION 2024	OPERATOR CABOL OIL & GAS
DISTRICT OCCANA	TELEPHONE
QUADRANGLE OCEBNA	FARM Cw. Murphy
COUNTY WY O	WELL # C-4
SURFACE OWNER SIMMONS For KLON	EMMENTS TELEPHONE
TARGET FORMATION WEIR	
DATE STARTED	
LOCATION 1-18-85 NOTIFIE	ED DRILLING COMMENCED_2-26-8.
WATER DEPTHS 49, 235	² , 135 ² ,
COAL DEPTHS 540', 1070'	, 115-66; 490-601
	Show the the state of the state
3-26-85	CASING
Ran 30/ feet of 76"	CASING "pipe on C+S with C+S fill up
Ran 2645 - feet of 854	"pipe on 4-2-85 with CYS fill up
Ran feet of	"pipe on with fill up
Ran 37/6 feet of 45	"pipe onwithfill up_RGY
	E. LAND GAS
TD 37/0 feet on	_
	PLUGGING 5 1986
	MAY 5 1000
Type From	To Pipe Removed
Pit Discharge date:	Type HoLB
Field analysis ph	
Well Record received	
Date Released 5-1-86	

API# 47-109-0952
LIST ALL VISITS FOR THIS PERMIT

Centlery Ry # 2

DATE	TIME	PURPOSE	COMMENTS
1-18-85	Dole	Bro. Commo	ence Coust
3-11-85	DALO B	70 Work Ac	doss Ropp
3-26-85	Cent		
3-28-85		waiting ON Re	ener
4-2-85		of 8% cog	(Holebution) Cts
4-8-85	pels 1	enting vado	n UlaLAtion
	y y = 0 = 2 = 2 = 2	7. 4	
			3 S
3			
6			
1			
Service			
7	4.1/		

Notes

