

deep well

ADD 1 a ...

FORM IV-2 (Obverse)	STATE OF WEST DEPARTMENT OF MINES, C	P VIRGINIA DIL AND GAS DIVISIO	Date: March 9	
[08-78]	ar and a second and		Operator's Well No1	
	OIL AND GAS WELL PH	ERMIT APPLICATION		
WELL TYPE: Oil/ Gas	s X/		API Well No. <u>47 - 0</u> State Count	y Permit
(If "Gas", Produ	uction/ Undergrour	nd storage/	Deep/ Shallow/)	
	318.5' Watershed:			
District: S	herman County: H	lampshire Qua	adrangle: R10, W. VA	
WELL OPERATOR Amoco Prod	luction Company	DESIGNATED AGEN	NT M. J. Root	
Address P. O. Box			Chamberlaine & Flowers,	Inc.
Traverse C	City, MI 49684		128 S. Second Street Clarksburg, W. Virginia	
OIL & GAS ROYALTY OWNER Robert D. a	and Lola McKee	COAL OPERATOR	N. A.	
Address Route 1, P.		***		
	'irginia 26729	-		
Acreage _ 271 (quest	ionable title to 6.096	COAL OWNER(S) W	WITH DECLARATION ON RECORD:	
SURFACE OWNER Same as roy	acres	' / •	s Royalty	
Address	· ·			
Acreage	-			
FIELD SALE (IF MADE) TO:				
Name				
Address		COAL LESSEE WIT		÷
OIL & GAS INSPECTOR TO BE NO	TIF1ED .	Address	MAR 1 3 1981	
Name Robert Stewart				
Address P. O. Box 34	5		OIL & GAS DIVISION	
Jane Lew, W.	VA 26378		DEPT. of MINI	want Several
The undersigned we	ll operator is entitled (to operate for all	or gas purnoses at the abo	
location under a deed/				
undersigned well operator fro	om (See Attachment)	-	, , , , , , , , , , , , , , , , , , , ,	00 5115
[If said deed, lease, or othe				*
Recorded on,	19, in the office of	of the Clerk of the	e County Commission of	
County, West Virginia, in				
	/ Drill deeper/ F			
Plug of	f old formation/ F	Perforate new forma	ation/	
Other pl	nysical change in well (s	specify)	· · · · · · · · · · · · · · · · · · ·	The Allin and the second property and a second seco
planne	ed as shown on the work o	order on the revers	se side hereof.	
	5 A 3 as 5 to		e are hereby notified that a	
bjection they wish to make c				ment
of Mines within fifteen (15)				
	· ·		reclamation plan have been r	
oý registered mail or deliver -				
on or before the day of the r	miling or delivery of th	is Permit Applicat	tion to the Department of Mi	nes at
Charleston, West Virginia.	-	Amoco Production	n Company	
PLEASE SUBMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO:	1	· · ·	Well Operator	
EST VIRGINIASOIL AND GAS CONSERVATION COMMISSION	Ву	11	Challand. F. Trickett	
415 WASHINGTON OTREET EAST HARLESTON, WV 25311		-//-		MANUAL STATE OF THE STATE OF TH
	The state of the s			

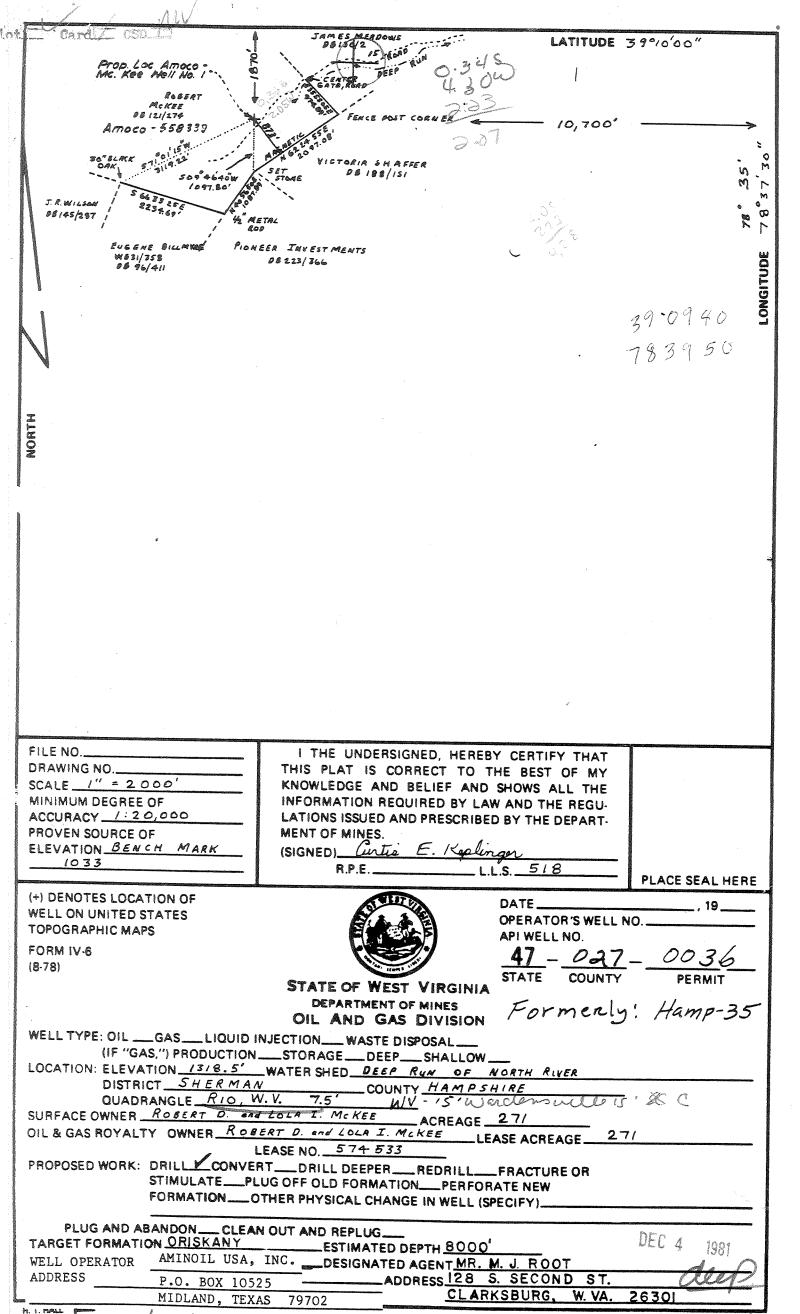
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PROPOSED WORK ORDER

				14 - AM - HATELET	GAT.	i omia	⁷ :		
ACTUAL,	INFORMATION	MHT	HE	SUBMITTED	ON	FORM	1V-30	THON	COMPLETION

DRILLING CO:	NTRACTO	OR (IF	KNOWN)	Del	ta Drilling	Company				
					Box 781					
					Indiana,	PA 15701				
GEOLOGICAL 7	CARGET	FORMAT	'ION.	Oriska	any Test					
			,		8000	Cook	5	37 /		
Approxi	.mate w	rater s	trata d	enths.	Frosh,	Cook.	Kotan, 	/ <u>X</u> /	Jable tools	/
Approxi	mate c	oal se	am dept	hs: }	N/A	To cool hat	SA15,	iest.		
,					14/ / 1	as rod! Of!	ug mineo ir	The are:	?: Yes/	No X
CASING AND T	'UBING									
CASING OR FUBING TYPE	5:20	1	IFICATI Weight per ft	1.	FOOTA	OE INTERVALS	M 0B	T FILL-UI SACKS (ic feet)	H	'MERO
Conductor	16"	В	62	Х	0 - 70	1		5 sx <i>CT</i> :		
Fresh water	9 5/8	H-40	32.30	Х	0 - 1500) · · ±	ll .		400 sx	
Con!							C.T.8		Simes	
intermediate					10.0					
'roduction	4_1/2	N-80	11.6	X	0 - 8000) * ±	4/5 -25/		Depths set	
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	an -									
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effoliated-con-	Deputy	Director	DAN	Gas Divis	sion					
112	COULL	CBBCC	uno nas	-rccorc	completed by led a declarat in (15) days o	ion under Co f receipt ti	010 6 99 A	by any ϕ	oul owner . he permit	
ell location he work pron	the osed t	well b	ocation ocation	sed well has be this lo	WAIV / owne / location. cop added to tocation, oprovi	r / lo If a mine man	up exists w . The unde	thich envi ersigned b	era the area	of the
2:	The second second second second second	decree was an American annual	19		and the same of th		•			
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MAR 22 1982

IV-35 (Rev 8-81) OIL AND GAS DIVISION WY DEPARTMENT OF MINES



Date	March	15,	1982
Opera	itor's		W P/34-70
Well	No	<u>l</u>	

State of Mest Wirginia Bepartment of Mines

Gil and Cas Bivision

Farm Robert D. McKee API No. 47 - 027 - 0036

WELL OPERATOR'S REPORT

OF BKKKYFKS, FFKKYFKSKKKKKKKKKKFFKKSFFKKSKKKKK PHYSICAL CHANGE

WEIL TYPE: Oil / Gas \underline{X} / Liquid Injection (If "Gas," Production / Undergrou	/ Wast	e Disposa e/ Deep	L/ D/ Sha	llow /)
LOCATION: Elevation: 1318.5 Watershed De				***************************************
District: Sherman County Hampsh				VA.
COMPANY Aminoil USA, Inc.				
ADDRESS P. O. Box 10525	Cacina	Hood in	TOFL	Cement
DESIGNATED AGENT M. J. Root	Casing Tubing	Used in Drilling	Left	fill up
ADDRESS 128 S. Second St., Clarksburg, W. VA.	Size	DITITIO	ти метт	Cu. ft.
SURFACE OWNER Robert D. and Lola Mckee	20-16	114	114	Surf.
ADDRESS Rt. 1, P.O. Box 47, Kriby, W. Va. 26729	Cond.	117	114	Suil.
MINERAL RIGHTS OWNER	13-10"			445 sx
ADDRESS	9 5/8	1498'	1498'	Circ
OIL AND GAS INSPECTOR FOR THIS WORK Robert	8 5/8		CONTROL OF	
P. O. Box 345 Stewart ADDRESS Jane Lew, W. Va.	- 7			
PERMIT ISSUED 11/19/81	5 1/2			
DRILLING COMMENCED 12/4/81	4 1/2			
DRILLING COMPLETED 12/26/82	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners	7 Aurit Coop College		
REWORKING. VERBAL PERMISSION OBTAINED ON 2/25/82:	used			
GEOLOGICAL TARGET FORMATION Oriskany			1 0000	
Depth of completed well 8489' feet R	V		h 9000	feet
			I.corz	
Water strata depth: Fresh feet;				
Coal seam depths: N/A	Is coal	being mine	ed in the	area?
OPEN FLOW DATA				
Producing formation	Pay	zone dept	-h_	feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow Mcf/d	Fin	al open fi	Low	Bbl/d
Time of open flow between initi	al and fi	nal tests	ho	urs
Static rock pressurepsig(surface	measurem	ent) after	hou	rs shut in
(If applicable due to multiple completion-	-)			
Second producing formation	Pay	zone dept	-h	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between initi				
Static rock pressure psig(surface				
	7.3	2582		verse side)
	27	(Contin	we on re	verse side)

DETAILS OF PERFORATED PRICEWALS, FRACTURING ON STIMULATION, PHYSICAL CHANGE, ALL

NO LOGS WERE RUN.

WELL LOG

FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Chèmung		0	2810	2810' - Fresh Water
Brallier	***	2810	6425	•
Gray Shale	er er er er Herrina Kangaran er	6425	7830	
Marcellus Shale		7830	8130	
Metabentonite	en e	8130		
Needmore Shale		8131	8212	& .
Orinskany Sand	**	8212	-	
T.D. 8489	Section 1			ere s Transport of the second of
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(Attach separate sheets as necessary)

Aminoil USA, Inc.

Well Operator

By: March 15, 1982 District Operations Manager

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 and, encountered in the drilling of a well."

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRES) ANGULD SE MAILED TO EACH COAL OPERATOR AT THEIR REM Robert D. and Lola McKee Aminoil USA Inc. COAL OPERATOR OR OWNER NAME OF WELL OPERATOR Rt. I P. O. Box 47 Kirby, W. Virginia P. O. Box 10525 Midland, Texas 79702 A/D/D/JODEN COMPLETE ADDRESS March 15 **19** 82 COAL OPERATOR OR OWNER WELL AND LOCATION Sherman District ADDUUM Same as Coal Owner Hampshire .County LEASE ON PROPERTY OWNER Well. No. ABCONSTO Robert D. McKee -Farm STATE INSPECTOR SUPERVISING PLUGGING Robert Stewart M W 0 2 1932 AFFIDAVIT STATE OF WEST VIRGINIA OIL AND GAS DIFFICIAL WYDERATTKENT OF HINES County of Hampshire Halliburton Services and Clay Osborn being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Aminoil USA, Inc. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 26 day of February , 19 82 , and that the well was plugged and filled in the following manner: SAND OR ZONE RECORD PILLING MATERIAL PLUGS USED Caring POSMATION GSG WLLSD SIZIE O KIND CSG Left in 50/50 Poz, Howco "A" w/10% salt. No Logs Run 150 sx 1/4# flocel/sx & 1% CFR 2 (7580' to 7380') STD Howco "A" 85 sx 1498' of 0 to 1352 9-5/8" STD Howco "A" 66 sx 0 (2001 to surf.) COAL SEAMS DESCRIPTION OF MONUMENT (Mames) (PEASEE) (NAME) (NAME) and that the work of plugging and filling said well was completed on the 26th February 19.82 And further deponents saith not. Sworn to and subscribed before me this. day of My commission expires: Notary Public.



API #47 - 027 - 0036 Revised

Date February 1, 1982

Orig November 11, 1981

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TELL TYPE: 011 / Gas X /	
(If "Gas", Production X /	Underground storage / Deep / Shallow /
OCATION: Elevation: 1318.5 Wat District: Sherman Cou	ershed: Deep Run of North River nty: Hampshire Quadrangle: R10 W. VA.
Address P. O. Box 10525 Midland, Texas 79702	DESIGNATED AGENT M. J. Root Address 128 S. Second Street Clarksburg, West Virginia . 26301
OIL AND GAS OYALTY OWNER Robert D. and Lola McKee Address Rt. 1, P. O. Box 47	COAL OPERATOR N/A Address
Kirby, West Virginia 267 Acreage 271	
URFACE OWNER	COAL OWNER(S) WITH DECLARATION ON RECORD: NAME Same as Royalty Address
Acreage	NAME
IELD SALE (IF MADE) TO:	Address
Address	COAL LESSEE WITH DECLARATION ON RECORD:
IL AND GAS INSPECTOR TO BE NOTIFIED:	Address
AME Robert Stewart	BECEIVED
Address P. O. Box 345 Jane Lew, West Virginia 26378	—— —— FEB 8 ~ 1982
Telephone 20376	OIL AND GAS DIVISION WY DEPARTMENT OF MINES
bove location under a deed/ leas o the undersigned well operator from s If said deed, lease, or other contract	
	in Book at page . A permit is
equested as follows:	
Plug off old formati	eper / Redrill - / Fracture or stimulate / on / Perforate new formation / e in well (specify) Orig Permitted for a TD of
8000', 11/19/81. Req	uest to drill to a TD of 9000' n the work order on the reverse side hereof.
he above named coal operator, coal own bjection they wish to make or are requespartment of Mines within fifteen (15) opies of this Permit Application and tailed by registered mail or delivered	er(s), and coal lessee are hereby notified that any ired to make by Code \$22-4-3 must be filed with the days after receipt of this Application by the Dept he enclosed plat and reclamation plan have been by hand to the above named coal operator, coal owner day of the mailing or delivery of this Application
LEASE SUBMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO:	Aminoil USA, Inc.
EST VIRGINIA OIL AND GAS ONSERVATION COMMISSION 513 WASHINGTON ST., E. HARLESTON, WV 25311 elephone - 304/348-3092	By: Hal H. Crabb, Jr. District Operations Manager

(Ravised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

AL	I TUAL I	NF URMAT	ION MUST	BE S	UBMIT	TED ON F	ORM 1V-35	UPON COMPLET	NOI	,
DRILLING CO	DNTRACT	OR (IF	KNOWN)	Delta	a Dril	ling Com	pany		•	
			6 4							
		A	ddress_	Box	781			•		
	•			India	ana, P	a. 157	01		•	
			•						•	
GEOLOGICAL	TARGET	FORMAT	10N Oris	kany 1	[est				•	
Estimate	d dept	n or co	mpleted	well_	9000	· fe	et. Rota	ry X / Cab		1
Approxim Approxim	iate co	al seam	denthe:	ns:	rresh	9	feet;	salt,	feet.	_
Is coal	being i	mined i	n this a	rea:	/A Yes	° No	y /		*	
	2				(\under		A	•	6 ca	
CASING AND	TUBING									
CASING OR		SPE	CIFICATI	ONS		FOOTAGE	INTERVALS	CEMENT FILL-	PACKERS	
TUBING TYPE		10-1	Weight			For Dri		UP OR SACKS	40.00 40 40.00 40 40.00 40 40 40.00 40 40 40 40 40 40 40 40	
Sonductor	1 16"	B	per ft 62	New	Used	ling 0-70 +	Well	Cubic ft.		
Fresh water			32	X		0-70 ±		75 sx	Kinds	
Coal	1 -	11 40	1 22	<u> </u>		0-1000	1	CTS - 400 sx	Sizes	
latermed.	1 -			İ		i		900	1 1262	
Production	3	3	15.5 & 1	4	1	0-9000	1	1,2,	Depths set	·
Tubing	2-3/8"	J-55	4.7	Х		0-90001		as required		
Liners				<u></u>			-	by Rule 15.01	Perforation	5:
	; -								Top Bot	tom
	1									
			· · · · · · · · · · · · · · · · · · ·		-	<u>'</u>	2		1	······································
<u> 107E:</u> E.gul	ation i	7.02 of	the Dep	artmer	it of	Mines pr	ovides the	at the origin	al and four	
· ; 22 E	u oj re	nm $\pm V-i$	i must p	e tile	ed wit	th the Da	مهدفه فستهدفك لندر	L'acomment ad	hu /21 - m7	
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	.,-3, -12h m	necuumo id Reaul	Itton Flo	zn" ap	pula	ble to t	ha realand	ition require	d by Code	_
	red bu	Code 82	22-4-12a	os (U)	(72) 2	ess prot familia	nously pai	d on the sam consent requ	e well, the	fee
633-4	-8a fro	m the c	owner of	any u	ater	well or	declling a	oithin 200 fe	et of the n	e
price de la	well.		• •.						,	
A sep	arate E	Toim IV-	-2 shall	not b	e req	uired fo	r fracturi	ing or stimul	ating a wel	Z
14, 18, 2	jracti	iring or	? stimul	iting	is to	be part	of the wo	ork for which	a permit is	S
· Sigli	i ana i	s notec	ı as suci	n on t	he Fo	im IV-2	filed in c	connection th	erewith.	
THIS PERMIT	MUST BE	POSTED	AT THE W	VELL SIT	£			•		
All provisions of the W. Ye	twing in a. Cada il	accontant	ce with Cho	ipler 22	-			•		
for seve									•	•
100		. 1715	permit shall	expire t	4					
operations has	ve not con	nmenced by	1 10/1	186	4				-	

Deputy Director - Oil & Gas Division

of the issued within fifteen (15) days of reacipt thereof: $\underline{\underline{\mathsf{W}}} \ \underline{\underline{\mathsf{A}}} \ \underline{\underline{\mathsf{I}}} \ \underline{\underline{\mathsf{V}}} \ \underline{\underline{\mathsf{E}}} \ \underline{\underline{\mathsf{R}}}$

d. undersigned coal operator / d	owner X / lessee / of the coal under this well
hation has examined this proposed	well location. If a mine map exists which covers the
ea of the well location, the well	location has been added to the mine map. The under-
goed has no objection to the work	proposed to be done at this location, provided the
li operator has complied with all	applicable requirements of the West Virginia Code and
e governing regularions.	the second of th

ate:	, 19 .		
vember 16, 1	981 Robert D. and Lola	I	
dKee signed or	rig application.	Bv:	
		Secretarian resident de la companya del la companya de la companya	



Farm Robert D. McKee

API #47 -027 - 0036

Date November 11, 1981

(Formerly: HAMP-36)

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OII AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /	The state of the s
	X / Underground storage / Deep / Shallow /
	Watershed: Deep Run of North River County: Hampshire Quadrangle: R10, W. VA.
WELL OPERATOR Aminoil USA, Inc. Address P. O. Box 10525 Midland, Texas 7970	Address 128 S. Second Street
OIL AND GAS ROYALTY OWNER Robert D. and Lola Mo Address Rt. 1, P. O. Box 47 Kirby, West Virginia	Address
Acreage 271	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Same as Royalty Address	NAME Same as Royalty Address
Acreage FIELD SALE (IF MADE) TO:	NAME Address
NAMEAddress	COAL LESSEE WITH DECLARATION ON RECORD:
OIL AND GAS INSPECTOR TO BE NOTIFI	Address
NAME_Robert Stewart Address_P. O. Box 345	NOV 1 7 1981
	26378 OIL AND GAS DIVISION WY DEPARTMENT OF MINES
The undersigned well operator above location under a deed / to the undersigned well operator f (If said deed, lease, or other con	
Recorded on , 19 ,	in the office of the Clerk of County Commission of
PROPOSED WORK: Drill X / Dri Plug off old fo	inia, in Book at page . A permit is Il Deeper / Redrill / Fracture or stimulate / rmation / Perforate new formation / change in well (specify)
objection they wish to make or are Department of Mines within fifteen Copies of this Permit Application a mailed by registered mail or deliver	own on the work order on the reverse side hereof. I owner(s), and coal lessee are hereby notified that any required to make by Code \$22-4-3 must be filed with the (15) days after receipt of this Application by the Dept. and the enclosed plat and reclamation plan have been ered by hand to the above named coal operator, coal owner the day of the mailing or delivery of this Application leston, West Virginia.
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Aminoil USA, Inc.
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1613 WASHINGTON ST., E.	Well Operator By: Hel H. Crabb Jr. Hal H. Crabb
CHARLESTON, WV 25311 Telephone - 304/348-3092	Its: District Operations Manager

(Eqvised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

	DRILLING CONTRACT	OR (IF	KNOWN)_	Delt	a Dril	ling Comp	any		
			iddress_	Box	781				•
				Indi	ana, P	A. 1570	1.		•
	GEOLOGICAL TARGET Estimated depth Approximate was Approximate coal Is coal being n	h of co ter str al seam	ompleted ata dept depths:	well hs:	Fresh	fee	t. Rota feet;	ry X / Cab salt,	le tools_/feet.
	CASING AND TUBING	PROGRA	M		*******		en e		4 m
	CASING OR TUBING TYPE	SPE	CIFICATI Weight			For Dril	- Left in	CEMENT FILL- UP OR SACKS	PACKERS
	Conductor 16"		per ft	New X	Used	ling 0-70' +	Well	Cubic ft. 75 sx	
	Fresh water 9 5/8"	H-40	32	X	 	0-1500 -+		73 34	Kinds 400 sx
	Coal _ latermed. _								Sizes
	Production 5 1/2"	K-55	15.5&17	X		0.0000			*
	Tubing		4.7			0-8000 + 0-8000 +		250 sx	Depths set
	Liners					0 0000 .			Perforations: *
		-							Top Bottom
		in the section of the			-		j		
	required by fill-1-8a from posed well. A separate Front where fractumed by saught and in this permit must all provisions being of the W. Va. Code, for drilling operations have not a seputy Director - C	d Regular Code 82 cm the comm IV-ring or s notecode BE POST in accordanced The local American	lation 23 22-4-12a, owner of -2 shall r stimula d as such ED AT THE conce with Colon is hereby his permit ske by 7-19- Division	and any unot Enting on the WELL hopier oppro	v) unl. (v) i vater i ve require to the For	ess previ f applica well or a wired for be part rm IV-2 f	ne rectand custy paid the the holling we fracturing of the world in custoff the custoff th	tion require d on the sam consent require ithin 200 fe. ng or stimulark for which connection the	e well, the fee ired by Code et of the pro- ating a well a permit is erewith.
a s w	The following or coal lesse is to be iscultation has examine the well localized has no objected operator has come governing regular	l operated this cation, to complied	hin fifts tor/ propose the well the wor	een (where we have a common to be	15) da 15) da 1 A I V 1 loca ation	ys of red ER lessee ition. I has been	under Code zeipt thez / of the state of th	the coal under the map exists when the mine map	r this well nich covers the o. The under-
D	ste: Tovember 16	, 19	81.		· ·	Ro	lest !	J. mc/	Kee
					g A :	<u> </u>	ea ~	220	

its: