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& Gant 2 5-5 Conings (142) Big Injun 2550



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

### Oil and Gas Division RECORD 2 WELL

MAR 2 7 1978

# OIL & GAS DIVISION DEFT. OF MINES

Rotary\_X \_\_ Oil\_ Cable\_\_ Gas\_\_ Recycling Comb. Water Flood\_ Storage\_

Feet \_

\_ Inches

2100 to 2150 feet

\_Salt Water\_

\_Depth \_

Vadis 7½ Quadrangle\_ Permit No. Dodd-1878

810 Bis of water -500-gel-ef-Aeid

Coal was encountered at \_\_

Avg. rate 28 bpm at 2000 lb None

90

Big Injun

\_Feet\_

-1300-HHL

Producing Sand\_\_\_

A GLISSIC AVO.			Disposal	(Kind)
Company Rockwell Petroleum  Address Sand Fork, W. Va.  Farm S. L. Gray Acres 148.5	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Br. of Sycamore Fk.  Well No. Elev 106KB  District Cove County Doddridge	Size 20-16 Cond.		e de la constanta de la consta	
The surface of tract is owned in fee by Howard Hinterer	13-10" 9 5/8			
Address New Milton, W. Va.  Mineral rights are owned by Howard Hinterer et. al Address New Milton, W. Va.	8 5/8 <del>7</del> 5 1/2	253	253	to surface
Drilling Commenced 11/1/77  Drilling Completed 11/9/77	4 1/2	2496	2496	160 sks.
Final production 1.310 cu. ft. per day 2 bbls.  Well open 6 hrs. before test 758 RP.	Liners Used			
Well treatment details:	Attach copy of c	ementing reco	ord.	
Well Fracked March 16, 1978 Per 47 thousand 1b of 20/40 sand	forations Big	_	00 to 215	50 - 10 Holes

Formation	Colo	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Clay		eu: Tallgares europe (aus Estatre (The Orientation et als et united egablication) en et any architecture et au	0	3	Drilled With Rotary Air
Shale			3	30	11000000 110000000000000000000000000000
Sand			30	50	
Shale			50	95	
Red Rock			95	105	
Shale			105	130	
Sand			130	180	water
Shale			180	200	W C C C C L
Sand			200	220	
Red Rock	ä		220	235	
Shale			235	243	
Sand			243	288	
Red Rock			288	1290	
Sand			290	313	
Red Rock		·	313	322	
Sand			322	331	
Red Rock			331	341	
Sand			341	446	
Shale			446	464	
Sand			464	468	
Shale			468	476	
Sand			476	488	
Sandy Sha	ale		488	516	Towards in
Shale			516	581	TO PER

(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet 2	Bottom Feet	Oil, Gas or Water * Remarks
Sand	581		
Sandy Shale	650	650 704	
Sand	704	776	
Red Rock	776	778	
Sand	7.78	836	
Red Rock	836	864	
Shale	864	I .	
Sand	909	909	
Shale	k	930	
Sand	930	984	
Shale	984 9 <b>9</b> 7	997	
Sandy Shale		1026	
Sand	1026	1030	
Shale Shale	1030	1080	
Red Rock	1080	1125	
Sand	1125	1127	
Shale	1127	1160	
Sand	1160	1210	
Shale	1210	1250	
Sand	1250	1340	
Shale	1340	1378	
Sand	1378	1428	
	1428	1460	entre de la companya
Shale	1460	1540	
Sand	1540	1584	
Shale	1584	1754	and the second of the second o
Sand	1754	1870	
Shale	1870	1954	en e
Limestone	- 1954	1996	
Blue Monday	1996	2006	and the second of the second o
Big Lime	- 2006	2120	Authorities Committee
Big Injun	2120	2160	
Shale	2160	2212	
Siltstone	2212	2350	
Shale	2350	2418	
Gantz		2426	en e
Shale	2426	2504	
		2504	Total Depth
			eng <sup>®</sup> jan 1 - 100 jan 1900 en 1900.
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APPROVED

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(Title)



## STATE OF WEST VIRGINIA

(25 GUIVE)) 007 3 1 1977

olegas prasion BIT. Of Miking

#### DEPARTMENT OF MINES

## Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE	October 29, 1977	
·			∼ lud
Surface Owner Mr. Howard Hinterer New Milton, W. Va.	-	any P.O. Box 86, Sand Fork, W. Va.	
K COVER			
Alineral Owner Mr. Howard Hinterer & other New Milton, W. Va.	Farm_ Locati	S. L. Gray Acres 148½  Branch of Sycamore Fork	
Coal Owner		No. one Elevation 1054	
Address		et Cove County Doddrie	dge
Coal Operator No Coal	Quadr	Vadis 7.5	
Address		u., 6.	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	navers (across distributions)		
All provinces being in accordance with Chapter 22, of the W. Va. Cade, the location is hereby approved	THENDER	on.	
for drilling . This permit shall expire if	TO BE NO	OTIFIED Paul Garrett	
operations have not commenced by 3-1-78.	ADDRESS	Clarksburg, W. Va.	
Deputy Director - Oil & Gas Division	PHONE	622-3871	
GENTLEMEN:		:	
The undersigned well operator is entitled to drill upo	n the above n	amed farm or tract of land for oil and gas, having f	ce ·
title thereto, (or as the case may be) under grant or le			
and others made to Rockwell Pet. Com  19 77 in Doddridge County, Book	pany a 103	and recorded on the <u>25</u> day of <u>Oct</u>	4
			_
CARARARA NEW WELLDRILL DEEPER			3
OIL AND GAS WELL ORIGINALLY DRI	LLED BEFOR	LE JUNE 5, 1969.	
The enclosed plat was prepared by a registered engine have been notified as of the above date.	eer or licensed	d land surveyor and all coal owners and/or operato	rs
The above named coal owners and/or operator are he to make by Section 3 of the Code, must be received by,	reby notified to or filed with	that any objection they wish to make, or are require the Department of Mines within ten (10) days.	:d
Copies of this notice and the enclosed plat were maile or coal owners at their above shown respective address same day with the mailing or delivery of this copy to th	<b></b>	of Mines at Charleston, West Virginia.	
	Very trul	ly yours, Rockwell Petroleum Company	
PLEASE SUBMIT COPIES OF ALL	(Sign Na	melhy the	
GEOPHYSICAL LOGS DIRECTLY TO:		Well Operator	
WEST VIRGINIA GEOLOGICAL AND		P.O. Box 86	
DOCTOTED DOLLAND	Address of	Street	
P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 Well	Operator	SAnd For,k , W. Va. 26430	
AC-304 - 292-6331		City or Town	
		State	•
*SECTION 3 If no objections are filed or found by	the Department	t of mines, within said period of ten days from the receipt	of
notice and plat by the department of mines, to said proposed loc the filing of such plat, that no objections have been made by the and the well operator authorized to proceed.	ation, the depart	tment shall forthwith issue to the well operator a permit reci	ting
	media haratele		****
		DODD-1878 PERMIT NUMBE	ER
"I have read and understand the reclamation requirements as Chapter 22. Article 4. Section 12-b and will carry out the specified	set forth in requirements."	47-017	

## THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

20 - 16 13 - 10 9 - 5/8 8 - 5/8 210 ft 210 ft To_Surface. 7 5 ½ 4 ½ 2550 ft 160 sks Po Perf. Top Perf. Top Perf. Top	ILATE			
ADDRESS SMITCHY 11c, W. Va. ADDRESS P.O. Box 86, Sand For TELEPHONE 477-3333 TELEPHONE 477-3333 TELEPHONE 462-8366 ENGROSSED GEOLOGICAL PORMATION. 31g, 1njun and Gantz TYPE OF WELL. OIL. GAS *** COMB. STORAGE DISPO RECYCLING WATER FLOUD OTI  VENTATIVE CASING PROGRAM:  CANNOLOGY DIDENT DERVIEW WATER FLOUD OTI  VENTATIVE CASING PROGRAM:  CANNOLOGY DIDENT DERVIEW WILL OR SACKS . 6  29. 15  13. 10  9. 16  13. 10  9. 18  5. 5/5  210. EL 210. ft. 10. Surface.  7 5  14 2 2550. Ft. 1560 sks. Po. Pod. Eur.  7 5  14 2 2550. Ft. 1560 sks. Po. Pod. Eur.  15 1. 10  16 2750 sks. Po. Pod. Eur.  16 2750 sks. Po. Pod. Eur.  17 2750 sks. Po. Pod. Eur.  18 COAL BRING MINED IN THE AREA?  19 APPROXIMATE COAL DEFTIS No. Coal.  18 COAL BRING MINED IN THE AREA?  19 DRILL.  SUBMIT FIVE (5) COPIES OF OG 1, S100.60 PERMIT FREE, PERFORMANCE BOND AND PERM.  MUST ALSO BE SUBMITTED.  TO DRILL DEFFER OR REDRILL.  SUBMIT FIVE (5) COPIES OF OG 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAY AND THE ORIGINAL W.  MUST ALSO BE SUBMITTED.  TO FRACTURE - STIMULATE.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE S, 1929, FIVE (5) COPIES OF FOUR SHOULD PERMIT NUMBER, AND PERFORMANCE WELLS DRILLATE.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE S, 1929, FIVE (6) COPIES OF FOUR SHAPPEN				
TELEPHONE 477-3333 TELEPHONE 462-8366  ESTIMATED DEPTH OF COMPLETED WELL 2550 ROTARY AND CABLE TOOLS.  FROTOSED GEOLOGICAL FORMATION: Big_lnjen_and Gantz  TYPE OF WELL OIL GAS 252 COMB. STORAGE DISPO  RECYCLING WATER FLOUD OTT  TENTATIVE CASING PROGRAM:  CASING AND THE THERM DEPTHS DEPTHS WILL 210. Ft. TO. SURFACE.  29-16  13-10  9-588  49  2550 ft. 160. sks 50  19-11  19-12  19-16  13-10  13-10  14-11  15-10  15-10  16-1	NAME NOBEL IN SOME			
STIMATED DEPTH OF COMPLETED WELL. 2550 ROTARY 200 CABLE TOOLS.  PROPOSED GROGOGUAL FORMATION. Big Injun and Gantz  PYPF OF WELL. OIL. GAS 200 COMB. STORAGE DISPO  BECYCLING. WATER FLOUD OTI  FENTATIVE CASING PROGRAM:  CASING SOF TUBING DEPLAY.  CASING SOFT DEPLAY.  CASING				
PROTOSED GEOLOGICAL FORMATION: Big Inlun and Gentz  TYPE OF WELL:  OIL. GAS **** CONN. STORAGE DISPO  RECYCLING WATER PLOUD OTT  FENTATIVE CASING PROGRAM:  CASING **E TUBEN: LSED FOR LITTL. GTMINT:  SYL: PRILING WILL OK SAYS: 6  29-16  13-16  29-5/8  8-5/8  8-5/8  8-5/8  8-5/8  8-5/8  8-5/8  8-5/8  8-5/8  8-5/8  8-5/8  8-5/9  8-5/8  8-5/9  8-5/8  8-5/9  8-5/8  8-5/9  8-5/8  8-5/9  8-5/8  8-5/9  8-5/8  8-5/9  8-5/9  8-5/8  8-5/9  8-5				
PENTATIVE CASING PROGRAM:  CASING AND TUBENT   LOND FOR   LITTE   CAMINITY    CASING AND TUBENT   LOND FOR   LITTE   CAMINITY    SAZE   PERLING   WILL   OR SACKS of    9-16   13-19    9-5/8   210. ft   210. ft   10. surface.  7-5   259. ft   160. sks. PO    1-2   1-3   1-3    1-3   1-4   1-4    1-4   1-4   1-4    1-5   1-5   1-5    1-6   1-6   1-6    1-7   1-7   1-7    1-8   1-7   1-7    1-9   1-7   1-7    1-	AND A SMALL TAX TAX THE SMALL SHAPE STATE OF THE SMALL STATE OF THE SMALL STATE OF			
PENTATIVE CASING PROGRAM  CANING AND TUBERS   LIPPOIDE   LIPPOIDE   CTAINED    SALE   BERLING   WITH   OR SACKS - C.  10 - 16   WITH   OR SACKS - C.  11 - 16   WITH   OR SACKS - C.  12   LIPPOINT   LIPPOINT   LIPPOINT    13 - 16   WITH   LIPPOINT   LIPPOINT    14   LIPPOINT   LIPPOINT   LIPPOINT   LIPPOINT    15   LIPPOINT   LIPPOINT   LIPPOINT   LIPPOINT    16   LIPPOINT   LIPPOINT   LIPPOINT   LIPPOINT    17   LIPPOINT   LIPPOINT   LIPPOINT   LIPPOINT   LIPPOINT    18   COAL BURNG MINED IN THE AREA?   LIPPOINT   LIPPOINT    19   SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE OF PLAT.  10   DRILL   SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE WELLS DRILLED PRIOR TO 1929. A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WINGST ALTO BE SUBMITTED.  10   AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE S, 1929, FIVE (5) COPIES OG - 1, PE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  11   OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OR OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OR OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OR OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OR OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OF OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OF OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OF OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OF OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OF OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OF OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE S, 1929, FIVE COPIES OF OIL AND/OR GAS WELL ORIGINALL				
CASING PROGRAM:  CASING PROGRAM:  CASING PROGRAM:  DRELIM:  BRELIM:  WILL OR SACKS - C  13 - 10  9 - 5/8  5 - 5/8  2 10 - Et				
CASING STEE TUBING DERLING WITH OR SACKS (C. 120-16)  13-10  3-5/8  3-5/	THER			
DRILING WILL OR SACKS - C  20-16  31-16  9-5/8  8-5/8  210 ft 210 ft 210 ft Jo Surface.  7  54  45  45  45  45  46  47  48  49  49  49  49  49  49  40  40  40  40				
10 - 16 13 - 16 14 - 16 15 - 15 - 16 15 - 16 15 - 16 16 - 17 - 17 - 17 - 17 - 18 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 18 - 19 - 19	FILL UP - CUBIC FT.			
13-10 9-5/8 5-5/8 2-10_ft 210_ft 210_ft To_Surface				
S - 5/8  S - 5/6  S -				
7 S S S S S S S S S S S S S S S S S S S	Management of the control of the con			
4 19 2550 ft 160 sks Po  3 Perf. Tor  1 Perf. Botton  2 Perf. Botton  3 Perf. Botton  3 Perf. Botton  4 Perf. Botton  4 Perf. Botton  5 Perf. Botton  6 Perf. Botton  7 Perf. Botton  6 Perf. Botton  7 Perf. Botton  6 Perf. Botton  6 Perf. Botton  7 Perf. Botton  6 Perf. Botton  6 Perf. Botton  7 Perf. Botton  6 Perf. Botton  7 Perf. Botton  6 Perf. Botton  7 Perf. Botton  7 Perf. Botton  7 Perf. Botton  7 Perf. Botton  8 Perf. Botton  8 Perf. Botton  9 Perf.				
4 95  1 160 sks Po Perf. Top Perf. Botton Pe				
Itimers    Tenf. Tor.   Penf. Bottom   Penf. Bottom	9077			
Liners  Perf. Battom Perf. Roper Perf. Battom Perf. Roper Perf. Battom	044			
APPROXIMATE FRESH WATER DEPTHS 90 FEET SALT WATER FEET APPROXIMATE COAL DEPTHS No. Coal IS COAL BEING MINED IN THE AREA? No BY WHOM?  TO DRILL: SUBMIT FIVE (5) COPIES OF OG · 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERM OF PLAT.  TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG · 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WINST ALSO BE SUBMITTED.  TO FRACTURE · STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG · 1, PE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be n four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten thereof.  WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of this lease have examined and place on our mine maps this proposed well location.  We the Coal Company have no objections to said well being drilled a providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7				
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APPROXIMATE FRESH WATER DEPTHS 90 FEET SALT WATER FEET APPROXIMATE COAL DEPTHS No. Coal IS COAL BEING MINED IN THE AREA? NO. BY WHOM?  TO DRILL:  SUBMIT FIVE (5) COPIES OF OG 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERM. OF PLAT.  TO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF OG 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WINGER AND ORIGINAL WINGER AND THE ORIGINAL WINGER AND ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG 1, PE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OF ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be n four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten thereof.  WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of this lease have examined and place on our mine maps this proposed well location.  We the Coal Company have no objections to said well being drilled a providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the coal operator in Articles 4, 5, and 7, Chapter 22 of the c				
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