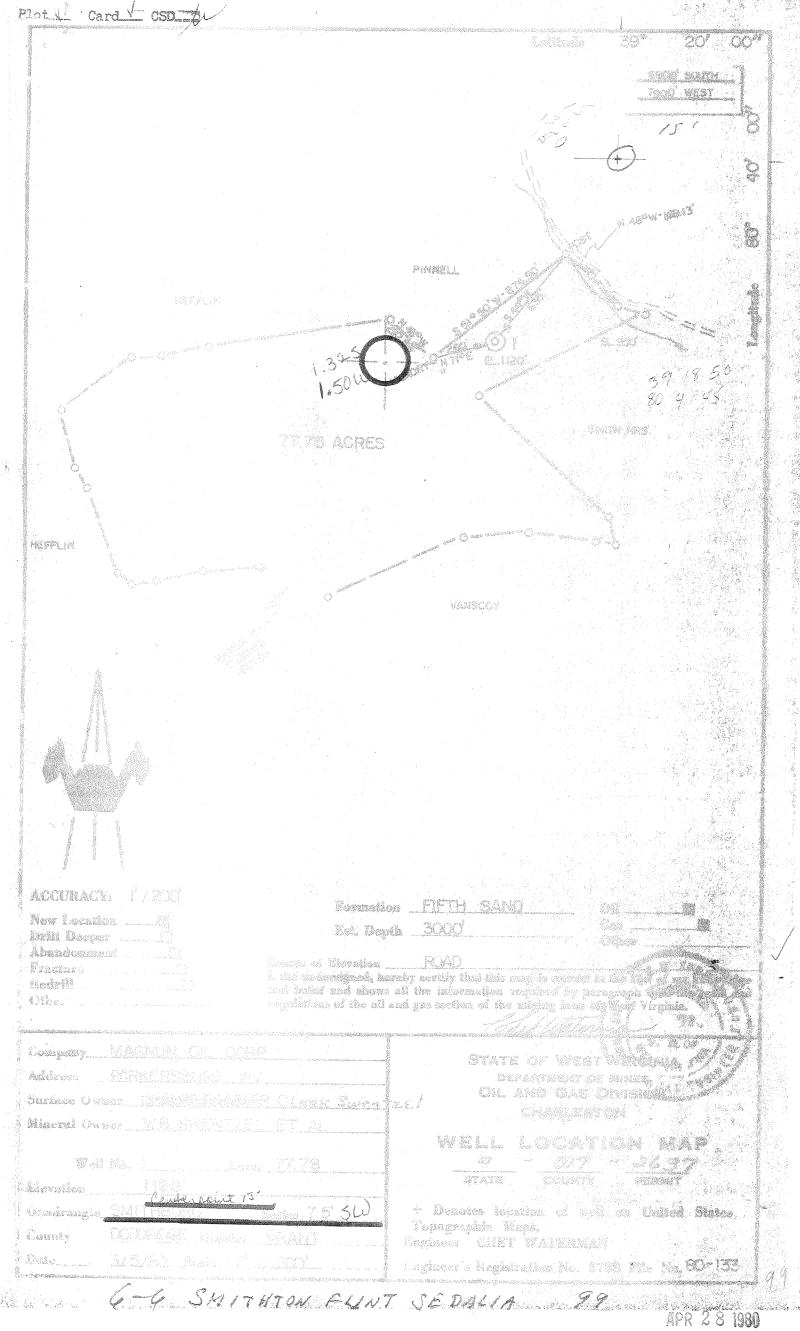


Dodd- 2637-

Engineer's Registration No. 3788 File No. 80-133

39° 20" 00" "Carly csp. Latitude 6900' SOUTH 7900' WEST 15 N 480W-169.13 PINNELL HEFFLIN SMITH HRS. 77.78 ACRES HEFFLIN VANSCOY ACCURACY: 1'/200' Formation FIFTH SAND New Location \_ Est. Depth \_\_3000' Gas . Drill Deeper \_ Other Abandonment \_ <u>ROAD</u> Source of Elevation. Fracture \_ I, the undersigned, hereby certify that this map is correct to the best of my and belief and shows all the information required by paragraph regulations of the oil and gas section of the mining laws of West Virginia. Redrill \_ Other . Company MAGNUM OIL CORP STATE OF WEST WIRGINL DEPARTMENT OF MINES PARKERSBURG, WV OIL AND GAS DIVISION Surface Owner CLAUSE FRAZIER CLARK Swentzel CHARLESTON Mineral Owner W.B. SWENTZEL ET AL LOCATION MAP Acres 7.7.78 Well No.\_\_\_ 1120' CENTERPOINT 15 + Denotes location of well on United States Quadrangle SMITHBURG \_\_\_\_Series\_7.5<sup>1</sup> Topographic Maps. Engineer CHET WATERMANUCT 1 8 1982 DODDRIDGE District GRANT County\_\_ 3/5/80 Scale | " = 500"Date Engineer's Registration No. 3788 File No. 80-133



(08-78) STATUS PROTECTION OF SECULD PROTECTION SECULD PROTECTION OF STATUS PROTECTION OF STAT	FORM IV			DE		ent o	P MINES, OIL		ION Operator's	pril 25, 19 <u>80</u> Swentzel <b>#4</b>
LOTTE: (11 Obs. X Limid Injection   Number Disposal   17 Mass   Podester   The representation   120 Mass   Norgans Run   1800   120 Mass   Norgans Run   1800   180	**						A 15		API Wel	10. 47 - 017 - 2635
Action: livesiman   120   Universiman   Novgans   Run  listrics: Grant   County   Doddridge   Condensies: Smithburg 7.5    Lowescos   Magnism Oil Corporation   Designated   Designated   Smithburg 7.5    Lowescos   Magnism Oil Corporation   Designated   Designated   Designated    Address   Sox 4295   Parkersburg   WV 26101   Parkersburg   WV 26101    Mitted North   Drill   October   Originated   Parkersburg   WV 26101    Mitted North   Drill   October   O	•		DRILL	ING. FE	RACTUR	ING A	ND/OR STIMULA	TING, OR PHYS	ICAL CHANGE	State County Permit
Action: livesimin li20	TYPE: (	11	/ G	as X	/ L	iquid	Injection_	_/ Waste D	isposal /	
Inspects: Grant Sounts: Doddrigge Cundrenge: Smithburg 7.5  portation Marnum Oil Corporation Designates Assur Magnum Oil Corporation  Address Doy 4295  Parkersburg, WV 26101  MITTED Monat Belli & Convent Dottl Geoper Result: Parkersburg, WV 26101  MITTED Monat Belli & Convent Dottl Geoper Result: Practure or atsendate  Study off oil of formation. Perforate new formation  Study insulated thanks in well (specify)  TARRITAGED: FINGLING OF BEY MOLE OR COMMINUM STREAMSTON STORMERS ON THE MORE STREET OF THE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								hallow/)
L DEBMATOD Magnum Gil Corporation DESIGNATED ACCIDE MAGNUT Magnum Gil Corporation Address Box 4295  Parkeraburg WU 26101 Parkeraburg WU 26101 Parkeraburg WU 26101  ALTERD MOTE: Drill X Convert Offil Corpor / Soutil / Fracture or stimulate brug off ole formation Perforate new formation / Other physical chance in well (specify)  SMLT ISSUED ON March 24 19 80 OIL 5 GAS INSECTOR FOR THIS WORK:  PARTICIPATION OF DRY NOTE OF CONTROL OF CONTRO	ATION: E	levation	on:	1120		Wa	atershed: 1	Morgans Run	1	the state of the s
Address Box 4295  Parkersburg, WV 25101  Parkersburg, WV 25101  Parkersburg, WV 25101  MITTSD MOEK: Drill X	Ε	istric	- di . yr dr .	Grant	ungessagsamme genovitysian Erigenemme	; c	ounty: <u>Dodd</u>	<u> Iridge</u> ্	uadrangle: <u>Sm</u>	ithburg 7.5
Parkersburg, WV 26101  Parkersburg, WV 26101  MITTED MODE: Delil K Converts Divil Geoper Renall: Fracture or stimulate Plug off old formation Perforate new formation Other physical change in woll (specify)  Other physical change in woll (specify)  MITTED NOTE: SECOND OF DIT HOLD ON Renall OF Perforate new formation Other physical change in woll (specify)  PAPPLICAS 2: FLUGGING OF DIT HOLD ON Renall OF THE WORK: Manne Paul Garrett  CONTRACT CHARGE POWER PROBLEM OF THE WORK OF THE WORK: Manne Paul Garrett  CONTRACT CHARGE POWER PROBLEM POWER PAUL OF THE WORK OF THE		4 .								
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Other physical change in well (specify)  PRIT ISSUED ON March 24	MITTED WO	EK: Dr	lll X	_/ Co	nvert	and the second second	/ Drill deep	er/ Redi	eill/ Frac	ture or stimulate
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PARTICIALLY PRODUCTION OF DRY NOLLOW NAME Paul Garrett  Address 321 Reach Street.  19 Clarksburg. WV  Depth 2359 Feet  Depth of completed well, 2379 Feet Rotary X / Cable Tools  Nater strata depth: Fresh, 80 Feet; salt, N/A feet.  Ceal semi-depths: N/A Is coal being mined in the area? No.  Work was consenced May 25 , 1980, and completed April 3 , 1980  SING AND TURING PROGRAM  SING OFF STREETPICATIONS  SING AND TURING PROGRAM  SING OFF SIZE Grade per it New Used For drilling Left in well (Chair feet)  Cut a semi-depth of the seminary of			izgraza coldonia	on who ye is the present to be the deposit of the present of the p	Hagila <del>andisələrin dərə dalaşı öznəldə o</del> zruş	sets maintain disensarity in Seistain	44/124/36-4535-6546-6444-6444-6444-6444-644-644-644-6	right americans (Caste and resistance) of Spatial Assay Spatial Assay and a resistance and a second spatial assay as a second spatial as a second spatial assay as a second spatial as a second spatial assay as a second spatial as a second spatial assay as a second spatial aspect as a second spatial a	erre errege generaliset des SSS van er SSS generaliset generaliset generaliset generaliset van de de redespublieren.	and decomposition from the property of the control
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PENORNING. VERBAL PERMISSION OSTAINED  Address 321 Beech Street  Clarksburg, NV  Depth of completed well, 2879 feet Rotary X / Cable Tools  Mater strata depth: Presh, 80 feet; salt, N/A feet.  Goal seam depths: N/A	F APPLICAB	JE: PL	UGGINO	OF DR	Y HOLE	ON		Name Paul	Garrett	
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Coal seam depths: N/A Is coal being mined in the area? No Work was commenced May 29 , 19 80 , and completed April 3 , 19 80  SING AND TUBING PROGRAM  SING AND TUBING PROGRAM  SING TYPE Size Grade per ft New Used For drilling Left in well (Cubic Feet)  Additional size Grade per ft New Used For drilling Left in well (Cubic Feet)  Additional size Size Grade per ft New Used For drilling Left in well (Cubic Feet)  Minds  Circ.  Sizes  Sizes  Lemediate  Depths set  Depths set  Depths set  Ding 4 1/2 CW 10.5 X 2805 2805 150 sks  Perforations:  Top Betton  2510 - 2357  APR 29 1880  EN FLOW DATA  Froducing formation Gordon & Gantz OIL & GAS, DIVISION Lepth  Final open flow, Mer/d Oil: Initial open flow, Debt/d  Time of open flow between initial and final tests, 4 hours  Static rock pressure, 850 psis (surface measurement) after 24 hours shut in  (If applicable due so multiple completion]  Second producing formation Neir Pay zone depth 2217-2357 feet  Gas: Initial open flow, 150 Nof/79 Panal open flow, Debt/d  Final open flow, 150 Nof/79 Panal open flow, Debt/d  Final open flow, 150 Nof/79 Panal open flow, Debt/d  Final open flow between initial and final tests, 4 hours  JUN 4 1980	*			-					Cable Tools	
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Static rock pressure, 850 psig (surface measurement) after 24 hours shut in	<i>⊙</i>	grea					*			

[08-78]

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

rdon- - Fraced with 21,000# Sand - 500 gal. Acid and 158,000 SCF N2 ntz

Perforations:

2510-12 2718-24 3 holes 8 holes

2732-36

Weir: - fraced with 21,000# Sand - 500 gal. Acid and 210,000 SCF N2

5 holes

Perforations: 2217-19 2 holes

2307-11 2317-20 5 holes

3 holes

2340-42 2 holes

2349-57 10 holes

WELL LOG

FORMATION	Color	Hard or Soft	/3 Top Feet	Bortom Feet	Remark. Including Indication of all free and sait water, wool, will and ga
Sand & Soil Sand & Shale Sand - Maxon Shale Sand - Blue Monday Lime - Big Lime Sand - Keener Sand - Big Injun Shale Sand Weir Shale Sand - Gantz Shale Sand - Gordon Shale Sand - Gordon Shale Sand - 4th TD	brown brown white black white white white black brown black white black white black white black white	soft hard hard hard soft hard soft hard soft hard soft	0 15 1823 1847 1935 1985 2044 2068 2144 2286 2359 2515 2714 2739 2780	15 1823 1847 1935 1985 2044 2068 2144 2286 2359 2507 2515 2714 2739 2780 2790 2879	

(Attach separate sheets to complete as necessary)

Magnum Oil Corporation

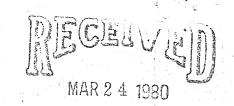
Agent

NOTE: Regulation 2.02(i) provides as jollows:

"The term 'log' or 'well log' chall mean a systematic, detailed seologial record of all formations, including coal, encountered in the lilling of a well."

TO THE DEPARTMENT OF MINES,





## Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE March 24, 1980
Surface Owner Clark Swentzel	Company Magnum Oil Corporation
Address 109 Kenyon Court, Joppatov	
Mineral Owner W. B. Swentzel et al	
Address Rt.2, West Union, WV	
	Well No. 1 Elevation 1120
Address N/A	District Grant County Doddric
Coal Operator N/A	Quadrangle Smithburg 7.5
Address N/A	
S PERMIT MUST BE DOCUME	
S PERMIT MUST BE POSTED AT THE WELL SITE	
provisions being in accordance with Chapter 22,	THERECTOR
the state of the s	INSPECTOR TO BE NOTIFIED Paul Garrett
11-27-80	ADDRESS 321 Beech St., Clarksburg, WV
1,0 to 1 de	PHONE 622-3871
Pepuly Director - Oil & Gas Division	We to the second of the second
GENTLEMEN:	
	Il upon the above named farm or tract of land for oil and gas, having fee
	or lease dated November 13 19 79 by Walter
	Corporation and recorded on the 21 day of March
19 80 in Doddzidg E County, Book _	Page
X NEW WELLDRILL DEE	PERREDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY	DRILLED BEFORE JUNE 5, 1969.
have been notified as of the above date.	engineer or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator as	re hereby notified that any objection they wish to make, or are required
to make by Section 3 of the Code, must be received	d by, or filed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were	mailed by registered mail, or delivered to the above named coal operators
or coal owners at their above shown respective add	dress day before, or on the to the Department of Mines at Charleston, West Virginia.
PLEASE SUBMIT COPIES OF ALL	Very truly yours, Magnum Oil Corporation
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) by Daniel In Charles Well Operator Present
THESE VIDCINIA CECIOCICAI AND	Box 4295
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY	Address Street
P. O. BOX 879	of Well Operator Parkersburg
MORGANTOWN, WEST VIRGINIA 26505	Well Operator Parkersburg Only or Town
AC-304 - 292-6331	West Virginia
	West viiginia State

notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of

BLANKET BOND

47-017-2637

PERMIT NUMBER

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

PROPOSED WORK ORDER	ro 2 X				
DRILLING CONTRACTOR: (	TO 3 X DRILL	DEEPEN	FRACTURE-STIMULATE		
NAME_Gene Stalnake	er. Inc	RESPONSIBLE AGENT:			
ADDRESS Box 9, Lette	er Gap, WV	Tagitum OII Corporation			
TELEPHONE 462-5701		MOV 2222	95, Parkersburg, WV		
ESTIMATED DEPTH OF COM	PLETED WELL: 3000	and the same of th	730		
PROPOSED GEOLOGICAL FOR	RMATION: Gordon	A the second sec	CABLE TOOLS		
TYPE OF WELL: OIL	GAS	COMB X company	EDISPOSAL		
	RECYCLI	NG STORAG	E DISPOSAL		
TENTATIVE CACTA		water flo	DODOTHER		
TENTATIVE CASING PROGRA	M:				
CASING AND TUBING	USED FOR				
SIZE	DRILLING	WELL	CEMENT LILL UP		
20 - 16		The second secon	OR SACKS - CUBIC FT.		
9 - 5/8					
8 - 5/8	248 7				
7	. 240 350'	240 350	Circ.		
5 1/2					
4 1/2	30001	3000			
2		3000	125 sks.		
Liners			Perf. Top Perf. Bottom		
			Perf. Top		
			Perf. Bottom		
APPROXIMATE FRESH WATER APPROXIMATE COAL DEPTHS	DEPTHS 80				
APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN THE	N/A	SALT WATER	FEET		
IS COAL BEING MINED IN THE	AREA? NO	The second secon	The second of the second		
TO DRILL:	410	BY WHOM?			
OF PLAT.	OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE BON	ID AND PERMANENT CORV		
TO DRILL DEEPER OR REDRILL					
SUBMIT FIVE (5) CODIES OF	C 00				
WELLS DRILLED PRIOR TO	F OG - 1, SHOWING ORIGINA 1929, A PERMANENT COPY	L PERMIT NUMBER AND	PERFORMANCE BOND. ON		
THE DISTRIBUTION OF THE PARTY O		OF THE PLAT AND THE	E ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE:					
OH AND/OR GAS WELL ORIGINAL ORIGINAL AND/OR GAS WELL ORIGINAL ORIG	GINALLY DRILLED BEFORE. ND ORIGINAL WELL RECOR	JUNE 5, 1929, FIVE (5) COI	PIES OG - 1, PERFORMANCE		
OIL AND/OR GAS WELL ORIC ING ORIGINAL PERMIT NUMB	CIMATTY DDYE	こうしょう おんだい おんだい おんだい おんだい かんしょう	FIVE COPIES OG - 1 SHOW		
Required forms must be filed w	WELL STATE OF THE BOY	ND.			
Required forms must be filed w four (24) hours in advance.	min ninety (90) days of comp	eletion for bond release. Ins	pector to be notified twenty-		
	The state of the companion of the compan	The state of the s			
The following mains					
The following waiver must be cereof.	completed by the coal operator	if the permit is to be issue	d within ton down		
AIVER: I the undersigned Amen 6			a within un days of receipt		
AIVER: I the undersigned, Agent for this lease have examined a	nd place on -	Coal Company, Owner or (	perator of the coal under		
We the	nd place on our mine maps th	nis proposed well location.	- coar ander		
providing operator has comp	Coal Company have r	no objections to said well be	ing drilled at this location		
Code.	olied with all rules and regulation	ns in Articles 4, 5, and 7, Cha	pter 22 of the West Virginia		
		n de la composition de la composition La composition de la			
		For Coal	Company		
		Office	al Tist.		