



IV-35 (Rev 8--81)

### State of Mest Birginia

Bepartment of Mines Gil und Cas Zivision

,	Date 7-22-82
	Operator's Well No. 2
	Farm Herman Jemison
	17 No 47 195 AQIU

WEIL OPERATOR'S REPORT						
OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE						
O \						
WEIL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal / (If "Gas " Droduction X / Underground Storage / Deep / Shallow /)						
LOCATION: Elevation: 770 Watershed	Sug AR	CREEL	Υ			
District: Meade County Tyl	eRd	Quadrangl	e Boss	RICAL		
Contradiction of the contradic						
COMPANY BISON, INC.						
ADDRESS !!! LAFAYETTEST. ST. MARYS W. UG.	Casing	Used in	Left	Cement		
DESIGNATED AGENT HAROLS E. WILSON	Tubing	Drilling		fill up Cu. ft.		
ADDRESS RT. 2 BOX 83 ST. MARYS. W. Ua.	Size	7	11 WC11	Cu. IC.		
SURFACE OWNER BILL MONROE	20-16					
ADDRESS BONS RUN, W.Va.	Cond.					
MINERAL RIGHTS OWNER HERMAN Jemison	13-10"					
ADDRESS 105 Was H. ST. Paden C.T., W. Ua.	9 5/8	GOL	441	122		
OIL AND GAS INSPECTOR FOR THIS WORK ROBERT	8 5/8	891	891	335		
LOWTHER ADDRESS Middle bounne, W.UR.	7					
PERMIT ISSUED //-5-8	5 1/2					
DRILLING COMMENCED 3-1/-82	4 1/2	4691	4691	600		
DRILLING COMPLETED 3-17-82	3					
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2					
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners					
REMORKING. VERBAL PERMISSION OBTAINED ON	used			•		
		<u> </u>				
GEOLOGICAL TARGET FORMATION DEVONIAN Sh.		Dept		4feet		
Depth of completed well 4190 feet R			Tools_			
Water strata depth: Fresh / 4 feet;	Salt/	A feet				
Coal seam depths:	Is coal	being mine	ed in the	area?		
OPEN FLOW DATA						
Producing formation Benson Billy Pay zone depth 4283 fe						
Gas: Initial open flow 40 000 Mcf/d	Oil: Ini	tial open	flow C	Bbl/d		
Final open flow 30, 800 Mcf/d	Fin	al open fl	ow C	Bbl/d		
30 mor Time of open flow between initi	al and fi	nal tests	& hou	irs		
Static rock pressure 480 psig(surface measurement) after 24 hours shut in						
(If applicable due to multiple completion)  Second producing formation Pay zone depth fee						
					Gas: Initial open flow Mcf/d	Oil: Ini
Final open flow Mcf/d				Bbl/d		
Time of open flow between initi						

hours shut in

psig(surface measurement) after

Static rock pressure

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

Perforations
33-,39 Holes

33-,39 HoLes 4282-4633 Huron

FRACTURE 805,000 SCF NZ

#### WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOITOM FEET	Including in	EMARKS dication	of all	fres
1ST SALT	1073	1089	and salt wat	er, coal	, oil ar	nd ga
and SALT	1185	1260				
3rd SALT	1279	1319	•			
MAXON	1402	1431				
Big Lime	1447	1503				
KEENER	1541	1573				
Big INJUN	1610	1672				
WEIR	1883	1911				-
BEREA	2090	alla				
50 FT	2169	2188				
30 FT	2331	2351				
GORDON	2433	2455				
4TH SAND	2559	2571				
5TH SAND	2621	2637				
TIONA	3149	3157				
Speechly	3218	3232			0	
BALL TOWN	3449	3477			4n W	
scheffield	3511	3537			4n 40	/b
BRADford	3678	3690		<u>1</u> 10	26	v
ELK	3835	3855	1	ful		
RiLey	i 1	4980	Q'N	Jave Jave		
Benson	46 14	4624	Ι',	Jave		

(Attach separate sheets as necessary)

BisON, INC.		
Well Operator		
By: Ruth a.	Blum	
Date: 7-2247		

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 will, encountered in the drilling of a well."





MMY - 5 1561

# Oil and Gas Division

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

O THE DEPARTMENT OF MINES,  Charleston, W. Va.	DATE Oct. 6, 1981
Dill Marrie	
	Company Bison, Inc.
ddress Bens Run, WV	
•	Farm Bill Monroe Acres 133,52
	26159 Location (waters) Sugar Creek
oal Owner_N/A	
ddress	District Meade County Tyler
oal Operator	
ddress Must be posted at the Well Site	
rovivens lesing in accordance with Chooter 22, e W. Va. Code, the location is hereby approved	
drilling . This permit shall expire if	INSPECTOR
tions have not commenced by 7-12-82	TO BE NOTIFIED Phillip Tracy
Jahman.	ADDRESS Rt. 3 Alma, WV.
eputy Director - Oil 9 gas Division	PHONE 304-758-4573
	<u> </u>
The undersigned well operator is entitled to dri the thereto, (or as the case may be) under grant made to Bison, Inc. S1 in Tyler County, Book	or lease dated Aug. 29 19 81 by Don Wagne and recorded on the 9th day of Sept.
The undersigned well operator is entitled to dri the thereto, (or as the case may be) under grant  made to Bison, Inc.  NEW WELL DRILL DEF	or lease dated Aug. 29 19 81 by Don Wagn and recorded on the 9th day of Sept 233 Page 196 FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.
The undersigned well operator is entitled to dri le thereto, (or as the case may be) under grant  made to Bison, Inc.  81 in Tyler County, Book  X NEW WELL DRILL DEF  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered	or lease dated Aug. 29 19 81 by Don Wagne and recorded on the 9th day of Sept. 233 Page 196  EPER REDRILL FRACTURE OR STIMULATE DRILLED BEFORE JUNE 5, 1969.
The undersigned well operator is entitled to dri the thereto, (or as the case may be) under grant  made to Bison, Inc.  Bl in Tyler County, Book _  X NEW WELL DRILL DEF  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered we been notified as of the above date.  The above named coal owners and/or operator a	or lease dated Aug. 29 19 81 by Don Wagne and recorded on the 9th day of Sept. 233 Page 196  EPER REDRILL FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operated.
The undersigned well operator is entitled to dri te thereto, (or as the case may be) under grant  made to Bison, Inc.  81 in Tyler County, Book _  X NEW WELL DRILL DER  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered we been notified as of the above date.  The above named coal owners and/or operator a make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were coal owners at their above shown respective ad	or lease dated Aug 29 19_81_ by Don Wagnet and recorded on the 9th day of Sept 233 Page 196 FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operators are hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. • mailed by registered mail, or delivered to the above named coal operators.
The undersigned well operator is entitled to dri  le thereto, (or as the case may be) under grant  made to Bison, Inc.  81 in Tyler County, Book  X NEW WELL DRILL DER  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered ve been notified as of the above date.  The above named coal owners and/or operator a make by Section 3 of the Code, must be received to the coal owners at their above shown respective admed ay with the mailing or delivery of this copy	or lease dated
The undersigned well operator is entitled to dri  le thereto, (or as the case may be) under grant  made to Bison, Inc.  81 in Tyler County, Book  X NEW WELL DRILL DEF  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered ve been notified as of the above date.  The above named coal owners and/or operator a make by Section 3 of the Code, must be received coal owners at their above shown respective admed day with the mailing or delivery of this copy  LEASE SUBMIT COPIES OF ALL	and recorded on the 9th day of Sept.  233 Page 196  EPER REDRILL FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operate are hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.  mailed by registered mail, or delivered to the above named coal operated dress day before, or on the tothe Department of Mines at Charleston, West Virginia.  Very truly yours,
The undersigned well operator is entitled to dri  le thereto, (or as the case may be) under grant  made to Bison, Inc.  81 in Tyler County, Book  X NEW WELL DRILL DER  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered we been notified as of the above date.  The above named coal owners and/or operator a make by Section 3 of the Code, must be received coal owners at their above shown respective ad me day with the mailing or delivery of this copy  EASE SUBMIT COPIES OF ALL COPHYSICAL LOGS DIRECTLY TO:	and recorded on the 9th day of Sept.  233 Page 196  EPER REDRILL FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operator are hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.  mailed by registered mail, or delivered to the above named coal operator day before, or on the tothe Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Bison, Inc. Applied Pariller Well Operator  Rt. 2 Box 83
The undersigned well operator is entitled to dri e thereto, (or as the case may be) under grant	and recorded on the 9th day of Sept.  233 Page 196  EPER REDRILL FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operate are hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.  mailed by registered mail, or delivered to the above named coal operated dress day before, or on the tothe Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Bison, Inc. Harring Street  Rt. 2 Box 83  Address  Street
The undersigned well operator is entitled to dri  le thereto, (or as the case may be) under grant  made to Bison, Inc.  81 in Tyler County, Book  NEW WELL DRILL DER  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered we been notified as of the above date.  The above named coal owners and/or operator a make by Section 3 of the Code, must be received to coal owners at their above shown respective adding day with the mailing or delivery of this copy  EASE SUBMIT COPIES OF ALL COPHYSICAL LOGS DIRECTLY TO:  ST VIRGINIA GEOLOGICAL AND CONOMIC SURVEY  O. BOX 879  REGANTOWN, WEST VIRGINIA 26505	and recorded on the 9th day of Sept.  233 Page 196  EPER REDRILL FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operators of the by notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.  mailed by registered mail, or delivered to the above named coal operators day before, or on the tothe Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Bison, Inc. Herself Charleston Well Operator  Rt. 2 Box 83  Address  Street
The undersigned well operator is entitled to dri  le thereto, (or as the case may be) under grant  made to Bison, Inc.  81 in Tyler County, Book  NEW WELL DRILL DER  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered ve been notified as of the above date.  The above named coal owners and/or operator a make by Section 3 of the Code, must be received to coal owners at their above shown respective addressed owners at their above shown respective addressed with the mailing or delivery of this copy  LEASE SUBMIT COPIES OF ALL COPHYSICAL LOGS DIRECTLY TO:  CST VIRGINIA GEOLOGICAL AND CONOMIC SURVEY  O. BOX 879  ORGANTOWN, WEST VIRGINIA 26505	and recorded on the 9th day of Sept.  233 Page 196  EPER REDRILL FRACTURE OR STIMULAT DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operator are hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.  mailed by registered mail, or delivered to the above named coal operator day before, or on the tothe Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Bison, Inc. Mest Virginia.  Rt. 2 Box 83  Street St. Marys,  City or Town WV.
made to Bison, Inc.  County, Book  X  NEW WELL  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered we been notified as of the above date.  The above named coal owners and/or operator a make by Section 3 of the Code, must be received to the coal owners at their above shown respective adding the mailing or delivery of this copy  LEASE SUBMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO:  EST VIRGINIA GEOLOGICAL AND CONOMIC SURVEY  O. BOX 879	PEPER

and the well operator authorized to proceed. 47-095-0964 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified sequirements."

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

PROPOSED WORK ORDER	ro Drill	DEEPEN	PEEPENFRACTURE-STIMULATE  RESPONSIBLE AGENT:  NAME Harold E. Wilson .  ADDRESS Rt. 2 Box 83 St. Marys, WV.		
DRILLING CONTRACTOR: (	II Known)	RESPONSIBLE AGE			
NAME Unknown		NAME_ Harold I			
ADDRESS					
TELEPHONE		TELEPHONE 304.	-684-3994		
ESTIMATED DEPTH OF COM	PLETED WELL: 4700		CABLE TOOLS		
PROPOSED GEOLOGICAL FO	RMATION: Devonian Sha	le			
TYPE OF WELL: OII	CX GAS X	COMB STOR A	AGE DISPOSAL		
			FLOOD OTHER		
TENTATIVE CASING PROGR.		WATER P	LOODOTHER		
	• • • • • • • • • • • • • • • • • • •				
CASING AND TUBING	USED FOR	LEFT IN	CEMENT LILL UP		
SIZE	DRILLING	WELL.	OR SACKS - CUBIC 1-T.		
20 - 16					
13 - 10 9 - 5/8	401	401			
	0.704				
8 - 5/8 7	8701	870	Cement up to surface		
5 1/2					
4 1/2	<u> </u>	1.2001			
3	4700.	4700	Cement up 2700'		
2			Pert. Top		
Liners			Perf. Bottom		
			Perf. Top		
			Perf. Bottom		
MUST ALSO BE SUBMITTO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ( BOND, PERMANENT PLA' OIL AND/OR GAS WELL ( ING ORIGINAL PERMIT N	OF OG - 1, SHOWING ORIGINALLY DRILLED BEF T AND ORIGINAL WELL RI DRIGINALLY DRILLED ON A UMBER, AND PERFORMANC	ORE JUNE 5, 1929, FIVE (5 ECORD. AND/OR AFTER JUNE 5, 19 E BOND:	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  O) COPIES OG - 1, PERFORMANCE  929, FIVE COPIES OG - 1, SHOW-  E. Inspector to be notified twentage		
•			e issued within ten days of receipt		
VAIVER: I the undersigned, Ag	ent for	Coal Company Own	er or Operator of the coal under		
this lease have examin	ned and place on our mine n	naps this proposed well loca	er or Operator of the coal under		
We the	Coal Company	have no objections to said	well being drilled at this location		
Code.		guiduons in Articles 4, 5, and	7, Chapter 22 of the West Virginia		
			For Coal Company		
			Official Title		