





Durley 9

DATE READING LIQUID SIZE 1-11-09 411 21 6-26-14 5-11-34 311	TO 170	IR (9)	GAS DATA	:		BATE	DEPARTMENT OF MINES DATA		DATE APPROVED "	18	DEELL	Ö	TICE POSTED	. our 1-12	DATE PLUGGED			Ō.	DATE PURCHASED	1-08-09	11-25-08		TOR S. W. Young	W/O NO. 930 DATE 11-09-08		DIST MORTHOW
OPEN FLOW VOLUME & PRESSURE DATA MINUTES MINUTES 15 15 30 60 R. F 260 390 550 15 30 60 R. F 52 63 73 82 89 11 12 11 11 11 11 11 11 11 11 11 11 11	TOTAL DEPTH			SQUAW "	(R)	PENCIL CAVE		Sand		MERGER-COM. 2 Gas Sd 1	BROOKVILLE COAL	CLARION COAL	2	K, " "	:	TVO	B. DUNKAND MAKE	L. DUNKARD SAND	_	JME .	•	1	BEDSTOWN "	+ COVL		FORMATIONS
TRISCON		2010 2085	\Box	709 1860 893 1965	Ľ	626 1643	H	349 1353	\Box	994 1034				+		214	010	770 783			599 859 1188	T	-	365 366	BOTTOM	
11 66.21. 1				1726-89										1		1			Ĭ			+			GAS AT	
C/V 1014 vorn				89-94 1820										1		+					1		-		OIL AT WATER AT	. H·
PRODUCING SAND O GV Gordon 646 II	TOTAL DEPTH			-	HANE SAND		1RD ::	BRADFORD	SHEPPIELD "	BALLTOWN SA	TIONA SAND	SPEECH, STRAY SAND	ENO " *	ELIZABETH BAND	" " STR. 80.	BAYARD " (SIXTH)	:	П	TH A "	ALM	GOR. STRAY SAND	SHEE SAND (BLUE HON.)	36' BAND (NINEVAH)	M, - 100, SYND	7	200
		-																	1	7847					707	
	2452		\prod				1;		-		-				+	+			1	74.21	+-				BOTTOM GA	ECEV
	H			$\ \cdot\ $	+				+		-		+		+	$\frac{1}{1}$			+	7443450				+	GAS AT OIL AT	ELEVATION
			3		1	نيا.	+	;	+		1		+		1	-			+	+	-				AT WATER AT	70
			OIL DATA	FROM TO	CASING CEMENTED		A ::	6-14 A 3x6-5/8 2062	8/3-3~4	X	PACKER DATA		2460 6-14		16 3/1976 187	2449 1-09		\$4,	1804	126			SIZE PUT IN DATE	CASING AND TUBING	AT CLASSIFICATION	DIV. 1 DISI. I ENNODONO

Reviewed_

Recorded.

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

SEP 1 0

Well Operator's Report of Well Work

ROBERT ORR ESTATE Farm name: 2243 Operator Well No.: LOCATION: 750' .; Elevation: Quadrangle: SHIRLEY District: McELROY Latitude: 10,450 Feet South of Longitude 5,000 Feet West of McELROY County: TYLER
39 Deg. 25Min. 0 Sec.
80 Deg. 45 Min. 0 Sec. Company: EQUITRANS, INC. 3500 PARK LANE Casing | Used in Left Cement PITTSBURGH, PA 15275-0000 Fill U. Tubing | Drilling | in Well|Cu. Ft Agent: JOHN EMMERLING Size Inspector: MIKE UNDERWOOD Permit Issued: 10 315 NONE Well work Commenced: 4/13/92 Well work Completed: 4/29/92 8-5/8 1261 NONE Permission granted on: 4/08/92 Rotary X Cable
Total Depth (feet) 2013 Rig 1930-1350 4-1/2 1930 Fresh water depths (ft) 153 ft³ N/A Salt water depths (ft) N/A Is coal being mined in area (Y/N)? N Coal Depths (ft): 437-440 OPEN FLOW DATA BIG INJUN Producing formation Pay zone depth (ft) 1791-1836 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Final open flow 0 MCF/d Final open flow 0 BbI d Final open flow Bbl d 0 Time of open flow between initial and final tests Hou s Static rock Pressure 15 psig (surface pressure) after 24 Hou s Second producing formation_ Pay zone depth (ft)
__MCF/d Oil: Initial open flow____ Gas: Initial open flow___ Bbl d Bbl d Final open flow Final open flow__ MCF/d Time of open flow between initial and final tests Hou s Static rock Pressure ____psig (surface pressure) after Hou s NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORAT D INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WE L IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION , LOG WHICH INCLUDING COAL ENCOUNTERED BY THE WELLBORE. For: EQUITRANS, INC. TMG 1997 By:

Date

BIG INJUN PERFORATION INTERVAL - 1791-1794, 1797-1800, 1828-1836

WORKOVER;

PULLED 1863' OF 7" CASING.

RAN 1930' OF 4-1/2" CASING AND CEMENTED.

GEOLOGIC FORMATIONS	ТОР	BOTTOM	Put Loty 1919 100
MAXTON	1402	1422	colomist 1187
LITTLE LIME	1626	1641	
PENCIL CAVE	1641	1650	
BIG LIME	1650	1714	
BIG INJUN	1714	1868	

Fants # is Tyler 307 (assigned 1978 by Dept Mines)

B. F. REED NO. 2 WELL. (2243 or 22421) WELL.
Gal. No. 362 (290)

McElroy District, Tyler County, W. Va. Philadelphia Co. Elevation, 740*. Completed in 1909. Original rock pressure, 712 lbs. On McElroy Creek. Shown on 5-D, West Union Quadrangle.

Pittsburgh Coal	437
Gas Sand	1042 - 1098
Salt Sand	1130 - 1210
Salt Sand	1377 - 1402
Big Injun Sand (gas, 1726-91)	1709 - 1860
Gordon Sand (gas, 24421)	2437 - 2452
Total depth	2452



Birdwell

Nuclear Log

70527

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No Permi	† # co	Charles and a second second	with the Wilderstein Store .	Change the March of the Control		Company
	WE		7		22	43
		UNTY	ig 1 Ver	e de la companya de	STATE_	W. V.J.
		ATION J. Post				OTHER SERVIC
PERMANENT DA' LOG MEASURED DRILLING MEAS	FROM G.L.		WP.		GE V// rm. datum	ELEVATIONS: ** KB. DF. GL. NA
DATE		8 Nov. 6	6	8 Nov. 6	66	8 Nov. 66
RUN NO. TYPE LOG		One	1800	one		ONC
EPTH - DRILLER	ही में के प्रति है । इसकी है है एक्ट्रिकेट है है जिल्लाकार की जान कर करता है । इसके हैं	GRMME	7	Nect		TEMO
EFID - DKILLER		*	经金融减少。	18 18 COM		*
		19501		1010		19501
EPTH - LOGGER				1950-		17901
EPTH - LOGGER OTTOM LOGGE	D INTERVAL	19431		1950		
PEPTH - LOGGER OTTOM LOGGE OP LOGGED IN	D INTERVAL	19431				1950
PEPTH - LOGGER OTTOM LOGGE OP LOGGED IN YPE FLUID IN H	D INTERVAL	19431		1950		1950
DEPTH - LOGGER OTTOM LOGGE OP LOGGED IN YPE FLUID IN F SALINITY PPM	D INTERVAL ITERVAL HOLE I CL.	19431		1950		19501
DEPTH - LOGGER BOTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./	D INTERVAL ITERVAL HOLE I CL.	19431		1950		1950
DEPTH - LOGGER DOTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL	D INTERVAL ITERVAL HOLE I CL. GAL.	19431		1930° 1450° Empty		1950
DEPTH - LOGGER OTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL AX. REC. TEMP PERATING RIG T	D INTERVAL ITERVAL HOLE I CL. GAL. C DEG. F	1943' O' Empty		1950		1950
DEPTH - LOGGER BOTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL MAX. REC. TEMP PERATING RIG T ECORDED BY	D INTERVAL ITERVAL HOLE I CL. GAL. CDEG. F	1943' O' Empty NA 3Hh's	To tal	1930° 1450° Empty		1950
DEPTH - LOGGER BOTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL MAX. REC. TEMP PERATING RIG T ECORDED BY //ITNESSED BY	D INTERVAL ITERVAL HOLE I CL. GAL. CDEG. F	1943' O' EMPTY NA 3HE'S GOIMAN	Total	1930° 1450° Empty		1950
DEPTH - LOGGER DOTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL MAX. REC. TEMP PERATING RIG TO ECORDED BY //ITNESSED BY DCATION	D INTERVAL ITERVAL HOLE I CL. GAL. P DEG. F	1943' O' EMPTY NA 3Ht.'S Rorman Doughert	Total	1930 1450 Empt - - NA		1950
DEPTH - LOGGER OTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL LAX. REC. TEMP PERATING RIG T ECORDED BY OCATION UN BOIL	D INTERVAL ITERVAL HOLE I CL. GAL. P DEG. F	1943' O' EMPTY NA 3Ht.'S Rorman Doughert	Total	1930 1450 Empt NA NA		1950' 100' Empty - 73.5
DEPTH - LOGGER COTTOM LOGGE COP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL LAX. REC. TEMP PERATING RIG T ECORDED BY VITNESSED BY DOCATION UN BOIL	D INTERVAL ITERVAL HOLE I CL. GAL. C. DEG. F	1943' O' EMPTY NA 3Ht.'S Rorman Doughert	Total	1930 1450 Empt NA NA U-V2.	ING REC	1950' 100' Empty - 73.5
DEPTH - LOGGER BOTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL MAX. REC. TEMP PERATING RIG T ECORDED BY ITNESSED BY DOCATION UN BOI	D INTERVAL ITERVAL IOLE I CL. GAL. CDEG. F IME	I 9 4 3' O' EMPTY NA 3 Ht.'s Reman Doughert "3 Clark ECORD	Total	1930 1450 Empt NA NA CAS	ING REC	1950' 100' Empty 73.5
DEPTH - LOGGER OTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL MAX. REC. TEMP PERATING RIG T ECORDED BY OCATION UN BOI NO. BIT	D INTERVAL ITERVAL HOLE A CL. GAL. CDEG. F IME RE HOLE RI FROM	1943' O' EMPTY NA 3Ht.'S Rotman Doughed "3 Clark ECORD	Total Sburg	1930 1450 Empt NA NA U-V2.	ING REC	1950' 100' Empty - 73.5
DEPTH - LOGGER BOTTOM LOGGE BOTTOM LOGGE OP LOGGED IN YPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL MAX. REC. TEMP PERATING RIG T ECORDED BY //ITNESSED BY DOCATION RUN BOI NO. BIT	D INTERVAL ITERVAL HOLE I CL. GAL. CDEG. F IME RE HOLE RI FROM	1943' O' EMPTY NA 3Ht.'S Rotman Doughed "3 Clark ECORD	Total Sburg	1930 1450 Empt NA NA CAS	ING REC	1950' 100' Empty 73.5 ORD TO 7.D.
DEPTH - LOGGER BOTTOM LOGGE TOP LOGGED IN TYPE FLUID IN H SALINITY PPM DENSITY LB./ LEVEL MAX. REC. TEMP PERATING RIG T ECORDED BY VITNESSED BY OCATION BUT NO. BIT	D INTERVAL ITERVAL HOLE A CL. GAL. CDEG. F IME RE HOLE RI FROM	1943' O' EMPTY NA 3HH'S GOIMAN Doughert *3 Clark ECORD	Total Sbung Size	1930 1450 Empt NA WA CAS WGT.	ING REC	1950' 100' Empty - 73.5 ORD 10 7.0.

` WVGES D&G Data System Listing:	2/25/1991	NOTE:	: All well depths measured in feet from surface	detu
ID: COUNTY: 095 (TYLER)	PERMIT: 70527 SFX: W	(Worked Over)	REASSIGNED ID #: ()	. 0000
COMPLETION INFO: ELEVATI ELEVATION TY (Gr	ON: COMP REC PE: G ound Lv1)	FLAG: (from E-LOG) RIG TYPE: (???)	* LOCATION TAX DST: * INFO: DEGREES MINUTES	MIL 0.0
CLASSIFICATION: INITIAL: (unclassified) FINAL: (unclassified)	DATES: MM/DD/YYYY Spud: //	WELL TYPF: 0	*	0.0
FINAL: (unclassified) FIELD: (?Never assigned)	COMP: / /1966 BATCH: / / YEAR RPTD:	(Unknown) CMPL METH: ()	* 15' LATITUDE: 00 00 * LONGITUDE: 00 00 * QUADRANGLE:	0.0
OPEN GAS-BEFORE TREATMENT: FLOW: GAS-AFTER TREATMENT:	(MCFPD) OIL-BEFORE T (MCFPD) OIL-AFTER TR	TREATMENT: (BOPD) REATMENT: (BOPD)	* 5' SECT: * UTM: EASTING: NORTHING:	
ROCK NATURAL (PSI): 0 PRESSURE: TREATED (PSI): 0	TIME (NATURAL, IN TIME (TREATED, IN	HOURS): 0	* COORDINATE DIGITIZED (Y/N):	
DEPTHS: TOTAL FTG: 1950	NEW ETGA A	EXPL FTG: 0	* OWNER STATUS: C (Cmpltd) DATE: / * INFO: SURFACE OWNER: Reed * OIL&GAS OWNER:	/1966
DEEPEST FM: AT TOTAL DEPTH: (undetermined ur	999 TESTED:	; 999 odetermined unit)	* COMPANY NUMBER: (2243) * OPERATOR: 0269 (Equitable Gas) *	

MECHANICAL LOG INFO:

STATUS:

RANGE OF INTERVALS:

0- 943

743 DEEPEST FM LOGGED: MICROFILM ROLL NUMBER(S): 158

LOGS AVAILABLE: GR,T MICROFILM ROLL NUMBER(S): 158

COMMENT: on roll \$158 as Reed (2243)

LOG TYPES: GR-samma ray; D-density; T-temperature; I-induction; N-neutron; S-sonic, \$0ther types not note

095-0507-Raw. Irsued 8/6/90 Expuse 8/6/92 Page__of___

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

*/ WEII 0	heracor: -	Equitra	ns. Inc.	6160	5)	
2) Operat	or's Well	Number:_	2243		3) E	levation: 750
4) Well t	ype: (a)	0il_/	or Ga	s <u>X</u> /		.ovacion. <u>/</u> z'
			Productio		round Storac Shallo	je <u>x</u> /
5) Propos	ed Target	Formation	n(s): <u>Big</u>			··· _
			775 '			
			strata dep			
			epths:			
			oths: 437'			
		in coal se	ams tribu	tary to act	ive mine? v	es/ No_ <u>x</u> /
		ork: 2. Squee	eze cement 1261	well casing. ' of 8-5/8"casing	with 200 cu.fr.	
12)		3. Insta	all 1//5' of 4-	1/2" casing.	(200 ca. 12.	new Column well
Mus -				ING PROGRAM	The state of the s	Edward Control
TYPE	s	PECIFICAT	IONS	FOOTAGE IN	ITERVALS "	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	CEMENT Fill-up (Cu. ft.)
Conductor						(cu. It.)
Fresh Water	10"	Currently	in well.		315'	
Coal						
Intermediate	8-5/8"	Currently	in well.		1261'	200
Production	4-1/2"	J-55	11.6#		1775'	160
Cubing						
iners			·			
	nd <u>N/A</u> zes N/A			•		
	pths set	N/A				
8747	E	or Divisor	of Oil a	nd Gas, Use	Only	
Fee(s)	paid:	<u>V</u>	rk Permit	(<i>H</i>)	amation Fund	WPCP
Plat	Ww-9	# WW-2	2В ∰ В	a Blunket	Dure	A_l Agent
	•	-	v	7		/ ngent

					·
		/ RECEIVED \			
	1 of	/	1)		
	WW2-A 37)	JUL 1:3 1990	2)	2243	's well number
File	Copy	DEPT. OF ENERGY	3)	API Well	No: 47 - 095 - 0507 - Rework State - County - Permit
		amama.	00 100		
		DEPARTMENT OF ENE		VIRGINIA VISION OF	
		NOTICE AND APPLIC	ATION F	OR A WELL	WORK PERMIT
4)	Surface Ov	vner(s) to be serv	red:	5) (a) C	coal Operator:
- •		Robert Orr Estate			ert Orr Estate
	Address	351 Leggett Ave.		Address	351 Leggett Ave.
		Barnesville, OH 4371	13		Barnsville, OH 43713
	(b) Name	Jim Orr 105-46 E. Center		(b) Coal	Owner(s) with Declaration
	Address	105-46 E. Center		Name Jim	Orr
		Windham, OH 44288		Address	3105-46 E. Center
	(c) Name _				Windham, OH 44288
	Address _			Name	
				Address	
6)	Inspector			(c) Coal	Lessee with Declaration
	Address _			Name	
				Address	
	Telephone	(304)			
X Sect I ha acco	Included ion 8(d) of I certify ve served of mpanying do Perso X Cert Publ I have rea	f the Code of West that as required copies of this not couments pages 1 t conal Service (Affi ified Mail (Postma ication (Notice of ad and understand	required req	ed by Cha ia (see p chapter 22 applicat on th ttached) stal rece ation att	apter 22B, Article 1, page 2) B of the West Virginia Code ion, a location plat, and he above named parties, by: aipt attached) ached) 38 CSR 11-18, and I agree
to t	he terms as	nd conditions of a	ny perm	it issued	under this application. personally examined and am
fami	liar with	the information su	ibmitted	on thic	application form and all
atta	chments, a	nd that based on m	ny inqui	ry of the	ose individuals immediately
resp	onsible for	r obtaining the in	formati	on, I bel	ieve that the information
		ate, and complete.		•	
,	I am awar	e that there are s	ignific	ant penal	ties for submitting false
info	rmation, i	ncluding the possi	bility peratesy		and imprisonment.
NOTA	ARIAL SEAL	By:		1////	7//
	IMS, JR., Notary Put		///	Presiden	T .
Pittsburgh A	llegheny County, PA	Address	5//	3/5/00 P/A	
	Expires May 20, 19				gh, PA 15275
····		Telepho		412) 78) ر	8-6066
Subs	cribed and	sworn before me t	his as	day of	June , 19 90
	SI 1	07. 0.			<i>(</i>
W	column	y sems to		<u> </u>	Notary Public
мyс	ommission	EVALLED	20, 19	y 4 -	





1) Date:			, 19
2) Operator's Well No	2243		(L)
3) API Well No.	47 – 095	- 0507	-FRAC
•	State	County	Permit

File

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DEPARTMENT OF ENERGY

APPLICATION FOR A WELL WORK PERMIT Х WELL TYPE: A Oil _ _/ Gas B (If "Gas", Production Underground storage Deep Shallow LOCATION: Elevation: 750 Watershed: McElroy Creek McElroy 095 Tyler Shirley District: Quadrangle: WELL OPERATOR Equitable Gas Company CODE: 16/50 7) DESIGNATED AGENT _ John J. Emmerling 420 Blvd. of the Allies 24 420 Blvd. of the Allies Pittsburgh, PA 15219 Pittsburgh, PA OIL & GAS INSPECTOR TO BE NOTIFIED DRILLING CONTRACTOR: Robert Lowther None Name ___ Name General Delivery Address Middlebourne, WV 10) PROPOSED WELL WORK: Drill / Drill deeper. / Redrill Stimulate Х Plug off old formation _/ Perforate new formation_ Other physical change in well (specify) Re-Tube Well. See Plugback Information 11) GEOLOGICAL TARGET FORMATION, Big InJun 1800 12) Estimated depth of completed well, N/A 13) Approximate trata depths: Fresh, N/A feet: salt. feet. 14) Approximate coal seam depths: 437-440 Is coal being mined in the area? Yes No 15) CASING AND TUBING PROGRAM SPECIFICATIONS CASING OR TUBING TYPE FOOTAGE INTERVALS CEMENT FILL-UP PACKERS Size Grade per ft. Left in wel Conductor Kinds 10" 315 Existing Fresh water Coal 81" sting 1261 Intermediate 41/2 1800 Depuns set Production Tubing Plug Back Liners Perforations: Plug Back to 1800 using approx. 160 SAX of to 1800 Bottom Top Class -A- Nea Cemer OFFICE USE ONLY **DRILLING PERMIT** 47-095-0507-FRAC October 30 87 19 Permit number 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 re-This permit covering the well operator and well location shown below is enactive of permit covering the well operator and well location shown below is enactive of permitted work. In addition, the well operator or his contractor shall notify the proper

No. 8) Prior to the construction of roads, locations and pits for any permitted work. It 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. October 30, 1989

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

Bond Agent/ Other NOTE: Keep one copy of this permit posted at the drilling loc Director; sion of GIY and Gas

See the reverse side of the APPLICANT'S COPA for instructions to the well operator.