



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 3/100 0.30 %
 PROVEN SOURCE OF ELEVATION N.E. Cor of Con Cr. at Whistler Run and RT 7 Elk 1072 Hundred 75' map

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) J. Herbert Bigginbotham
 A.P.E. _____ L.L.S. 91

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 7-28- 1984
 OPERATOR'S WELL NO. _____
 API WELL NO. _____
47 - 061 - 0748
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1164 SP. 2451 WATER SHED Whistler P.M. of N.E.K. of WVA. FK of Dunkard Co.
 DISTRICT Battle COUNTY Monongalia
 QUADRANGLE Hundred 75' map 403 Mannington 072. C5
 SURFACE OWNER James P. Kennedy, Burton, W.V. ACREAGE 1479 TRACT 2
 OIL & GAS ROYALTY OWNER Anna Whistler & O.L. Goodnight EASE ACREAGE _____
 LEASE NO. 1214 Woodland Crescent, Fairmont, W.V. 26554
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Shale ESTIMATED DEPTH 5000'
 WELL OPERATOR Rucky Oil Producing Co DESIGNATED AGENT David Hanlon
 ADDRESS Box 123 ADDRESS Harrisville, W.V. 26362
wooster, Ohio 44691

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IV-35
(Rev 8-81)

DEC 17 1984

OIL & GAS DIV.
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 12-11-84
Operator's Whisler #4
Well No. _____
Farm Whisler
API No. 47 - 061 - 0748 OK

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1164' Watershed Whisler Run of N. Fork of WV Fork Dunkard Creek
District: Battleee County Monongalia Quadrangle Hundred, WV

COMPANY Buckeye Oil Producing Co.
ADDRESS P.O. Box 123, Wooster, OH 44691
DESIGNATED AGENT Tom Wolboldt
ADDRESS Box 50, Rt. 3, Smithville, WV 26562
SURFACE OWNER James P. Kennedy
ADDRESS R.D. #1, Burton, WV 26562
MINERAL RIGHTS OWNER Anna Whisler
ADDRESS c/o O. L. Goodnight
1214 Woodland Crescent, Fairmont, WV 26554
OIL AND GAS INSPECTOR FOR THIS WORK
2604 Crabapple Ln.
Fairmont, WV 26554
Donald Ellis ADDRESS
PERMIT ISSUED 9-14-84
DRILLING COMMENCED 10-19-84
DRILLING COMPLETED 10-24-84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	237	237	90 sacks circulated
9 5/8			
8 5/8	1086	1086	300 sacks circulated
7			
5 1/2			
4 1/2	4690	4690	Cemented back to 1950' - 520' sac
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Shale Depth 5000 feet
Depth of completed well 4702 feet Rotary X / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: 990-998 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3991-4201 feet
Gas: Initial open flow 50 Mcf/d Oil: Initial open flow - Bbl/d
Final open flow (250) Mcf/d Final open flow - Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 720 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

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

12 perforations 3/8" @ ^{Speckley} 3991, 3999, 4000, 4001, 4044, 4093, 4123, 4194, 4195, 4196, 4200, 4201. Broken down with 180 M 8C. f. nitrogen in 2 stages with 400g. 157 acid, Broke at 3300# - static 3100#. Gas & salt sand - 1800' completed natural.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Maple ⁺ / Maple Town Coal			894	900	
Pittsburgh Coal			990	998	
Murphy Sand			1160	1170	
Little Dark ⁴⁰ Sand			1350	1356	
Big Dark ⁴⁰ Sand			1506	1550	
Gas Sand ✓			1650	1755	
Salt Sand ✓			1796	<u>1807</u>	
Maxton			1820		
Big Lime			2170		
Big Injun				2500	
301 ? ^{Alcino}			2755		
Gantz			2935	2964	
U.N. ? ^{50 Ft.?}			2995	3004	
L.N. ? ^{30 Ft.?}			3030	3060	
Gordon Stray			3094	3105	
Gordon			3170	3184	
Gordon - 4th			3206	3232	
Gordon - 5th			3260	3275	
Bayard			3390	3395	
Elizabeth			3440		
Shale			3450		
T.D.				<u>4702</u> Bradford	

4702
3275
1427 - expl. fig.
- 5th old fld part

(Attach separate sheets as necessary)

Buckeye Oil Producing Co.

Well Operator

By: Ross S. Shoolby V. Pres.

Date: 12-11-84

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 coal, encountered in the drilling of a well."

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JUN 04 1985



1) Date: May 20, 19 85
 2) Operator's Well No. Whisler #4
 3) API Well No. 47 061 0748 F
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION
 DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1164.0 Watershed: Whisler Run at N. Fork of WV fork of Dunkard C
 District: Battelle / County: Monongalia Quadrangle: Hundred, WVA 403
- 6) WELL OPERATOR Buckeye Oil Producing Co. (24) 7) DESIGNATED AGENT Tom Wolboldt
 Address P.O. Box 123 Address Box 50, Rt #3
Wooster, OH 44691 7275 Smithville, WVA 26178 1-304-477-3
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Donald Ellis Name Coastal Corp.
 Address 2604 Crabapple Lane Address 3501 Emerson Ave.
Fairmont, WVA 26554 1-304-534-5596 Parkersburg, WV 26104
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Gordon Series
- 12) Estimated depth of completed well, 3330 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: 990' by log Is coal being mined in the area? Yes / No
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	113/4	new		X		237	237	to surface	90 sacks
Coal	8 5/8"				X	1086	1086	to surface	311 sacks
Intermediate									
Production	4 1/2			X		4690	4690	up to 2022'	554 sacks
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-061-0748-Frac Date June 5 19 85

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper 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.

Permit expires June 5, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
24	A113	MH	MH	30585

Margaret J. Hass
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

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



1) Date: August 14, 1984
 2) Operator's Well No. Whisler #4
 3) API Well No. 47 - 061 - 0748
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil Gas B (If "Gas", Production / Underground storage / Deep / Shallow MIFB
- 5) LOCATION: Elevation: 1164.0 Watershed: Whisler Run at N. fork of WV fork of Dunkard Cr.
 District: Battelle County: Monongalia Quadrangle: Hundred, W. VA
- 6) WELL OPERATOR Buckeye Oil Producing Co. 7) DESIGNATED AGENT David Hanlon
 Address PO Box 123 Address 111 S. Court St.
Wooster, OH 44691 Harrisville, W. VA 26362
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: 1-304-643-2264
 Name Donald Ellis Name contract not let
 Address 2604 Crabapple Lane Address _____
Fairmont, W. VA 26554 1-304-534-5596
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, shale
- 12) Estimated depth of completed well, 5000 feet
- 13) Approximate strata depths: Fresh, -- feet; salt, -- feet.
- 14) Approximate coal seam depths: 1020' Pitt Coal Is coal being mined in the area? Yes _____
- 15) CASING AND TUBING PROGRAM

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 OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS						FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well			
Conductor	10 or 13"			X		200	200	cement to surface	NEAT	
Fresh water										
Coal	8 5/8"			X		1600	1600	cement to surface		
Intermediate										
Production	4 1/2"			X		to be completed thru formation		100	Depth required by rule 15.01	
Tubing	1 1/2 or 2"			X		to be completed thru formation				
Liners									Perforations: Top Bottom	

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-061-0748 Date September 14, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper 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.

Permit expires September 14, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>24</u> BLANKET	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing <u>[Signature]</u>	Fee <u>290-94</u>
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32325123058

Margaret J. Hesse
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

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