

WINDFALL OIL & GAS - ZELMAN INJECTION WELL APPLICATION TABLE 4 - MONITORING PROGRAM			
SAMPLING POINT	TYPE - DIRECTION FROM SITE	FREQUENCY DURING DRILLING	DURING OPERATION
RMS 12-9-13	POWERS WELL - NW	MONTHLY	SEMI-ANNUALLY
RMS 10-9-14	ZELMAN WELL - SW	MONTHLY	SEMI-ANNUALLY
RMS 7-9-13	BARR WELL - SE	MONTHLY	SEMI-ANNUALLY
RMS 4-9-19	STREAM - SW	MONTHLY	SEMI-ANNUALLY
RMS 2-9-20	SEEP - NW	MONTHLY	SEMI-ANNUALLY
RMS 2-9-14	STREAM - SE	MONTHLY	SEMI-ANNUALLY

See Table 3 for proposed analytical parameters minus Oil & Grease

APPENDICES

APPENDIX A – GAS WELL LOGS

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

DIVISION OF OIL AND GAS
Room 1205 Kossman Building
100 Forbes Avenue
Pittsburgh, Pennsylvania 15222



CERTIFICATE OF PLUGGING WELL TYPE OF WELL Gas

Forney Winner and Mary Winner
Coal Operator or Owner
218 Wheeler St., Lock Haven, PA 17745
Address

Felmont Oil Corporation
Name of Well Operator
P.O. Box 590, Olean, N.Y. 14760
Address

Coal Operator or Owner
Address

August 15, 1979
Date

Brady Township

Coal Operator or Owner
Address

Clearfield County

Farm ... Josephine Carlson, et al

COMPLETE ABOVE SECTION IF APPLICABLE

Well (Farm) No. 1 Serial No. F-128

Mr. John Gerg

DIVISION REPRESENTATIVE SUPERVISING

COAL REPRESENTATIVE OBSERVING

We, the undersigned representatives of the well operator certify that we participated in the plugging of the above well, and that the work was started July 31, 19 79 and that the well was plugged as follows:

FILLING MATERIAL AND PLUGS	FROM	TO	Casing and Tubing		
			SIZE	PULLED	LEFT
Cast Iron Bridge Plug @ 7250'	7250'	7249'	13-3/8"	--	228'
20 sks. of 50-50 POZ + 10% salt	7249'	7120'	8-5/8"	--	1312'
Gelled water	7120'	2500'	5-1/2"	2500'	4870'
35 sks. of 50-50 POZ + 10% salt	2500'	2400'			
Gelled water	2400'	1750'			
35 sks. of 50-50 POZ + 10% salt	1750'	1650'			
Gelled water	1650'	1350'	Depth of Coal Seam, if Any		
55 sks. of 50-50 POZ + 10% salt	1350'	1175'	186 - 188'		
Gravel	1175'	1160'	329 - 331'		
Air	1160'	Surface			
			Description of Monument		
*Unable to cut 5-1/2" casing any lower than 2500' because casing was stuck in hole.			2" vent pipe 6' high with 2" tee on top.		

and that the work of plugging and filling said well was completed on the 8th day of August, 1979.

Felmont Oil Corporation
(Well Operator)

PERMIT NO. 033-20341-P
EE-341-P

PROJECT NO. _____

Michael R. Walls
(Qualified Participant)

Michael R. Walls
(Qualified Participant)

(Qualified Participant)

One copy of this certificate to be mailed to each coal operator or owner, if any, and one to the Division, by registered mail, upon completion of plugging.

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WELL RECORD

Unidirectional Survey

29650' F N
550' A E

Name Wassaphine Carlsson Co. Clearfield Trap. Brady No. 3330
 Owner Felmont Oil Corp. F-128 Contr. Heb. Not.

Date Oct 28 1960 Elev. 1633 Product Oil Drill Quad. De Bois F Locate by Sketch
 Obtained by Authority

Geol. Name	Thick. base	From	To	Geol. Name	Thick. note	From	To
Nov 18		6712					
	Tully	7281					
	Onondaga chert	7296		Nov 10			
Nov 20	Onskany T.D.	7351	7365				
	4100 Mcf gas B.F.						
	R.P. 2859 # 30 hrs						
Dec 2	15,000 Mcf gas						
	R.P. 2810 # 72 hrs						
	Completed 11-26-60						
	Faced 7200-7365						

Drilling in Rotary
 13 3/8" casing (230 ft)
 8 3/8" " 1320 ft
 5 1/2" " 7297 ft

6712 7351 7351
 1044 1044 1044
 5068 5067 5066

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MINES AND MINERAL INDUSTRIES
OIL AND GAS DIVISION

033-20341-P
Coal seams un-workable
~~C-E-54-P~~

14,500' S 41° 07' 30"
550' W 78° 45' 00"

(3)

LOCALITY: DuBois 7 1/2 15'
Sec. "F"

PERMIT NO. ~~Non-permit needed~~

MAP REFERENCE: 29,650' S/NL
550' W/EL

KIND OF WELL: Gas
(Oil, Gas, Other)

WELL RECORD

COMPANY: Felmont Oil Corporation	Size of Casing and Tubing	Used in Drilling	Left in Well	Packers: Type, Size and Depth
ADDRESS: P. O. Box 354, Bradford, Penna.	13 3/8"	228, 22'	228, 22'	
ARM Josephine Carlson, et al ACRES 48	8 5/8"	1312, 00'	1312, 00'	
WELL FARM NO. 1 CO. SERIAL NO. F-128 Sylvania #6972	5 1/2"	7370, 22'	7370, 22'	
ELEVATION: 1644' RT LEASE: FPaL-9673				
TOWNSHIP: Brady COUNTY: Clearfield				
DRILLING COMMENCED: 11/1/60 COMPLETED: 11/26/60				
PRODUCTION: 4,150,000 cu. ft.				PERFORATIONS AT:
ROCK PRESSURE: 2839 psig. 20 hrs.				
WELL TREATMENT: (Shooting, Acidizing, Fracturing Etc.)				
11/25/60 - Halliburton hydrafrac from 7299' - to 7365' with 11,900 gal. frac fluid; propping agent 9,000# 20-40 sand, 3,500# 10-30 sand; 1,000 gal. MCA acid; 500# WG-4 gel agent; 200# CW-1 breaker agent; 30 gals. Howco suds; 3,500# sand; Max. pressure: 4500#.				
RESULTS AFTER TREATMENT: 15,000,000 cu. ft.				
ROCK PRESSURE AFTER TREATMENT: 2810# - 72 hrs.				

CEMENTING DATA: (Size Pipe, Depth, No. Bags, Date)

11/6 - Set 13 3/8" drive pipe @ 230' with 175 sacks of Regular cement.
11/9 - Set 8 5/8" casing @ 1320' with 375 sacks of Regular cement.
11/18 - Set 5 1/2" casing @ 7299' with 125 sacks of Regular cement and 40 sacks of Aquagel.

REMARKS: Gas Tested At:
7355' - 2,500,000 cu. ft.
7360' - 3,200,000 cu. ft.
7365' - 4,150,000 cu. ft.

FORMATION	TOP	BOTTOM	GAS AT	OIL AT	WATER AT (Fresh or Salt Water)	REMARKS
Clay	0	40				
Shale	40	107			107' (fresh)	
Sandy Shale	107	186				
Coal	186	188				
Shale	188	243			200' (fresh)	Set 13 3/8" @ 230'
Sand - Water Sand	243	248				
Sand & Shale	248	268				
Sand	268	280			275' (fresh)	
Shale	280	304				
Sand	304	308				
Shale	308	329				
Coal	329	331				

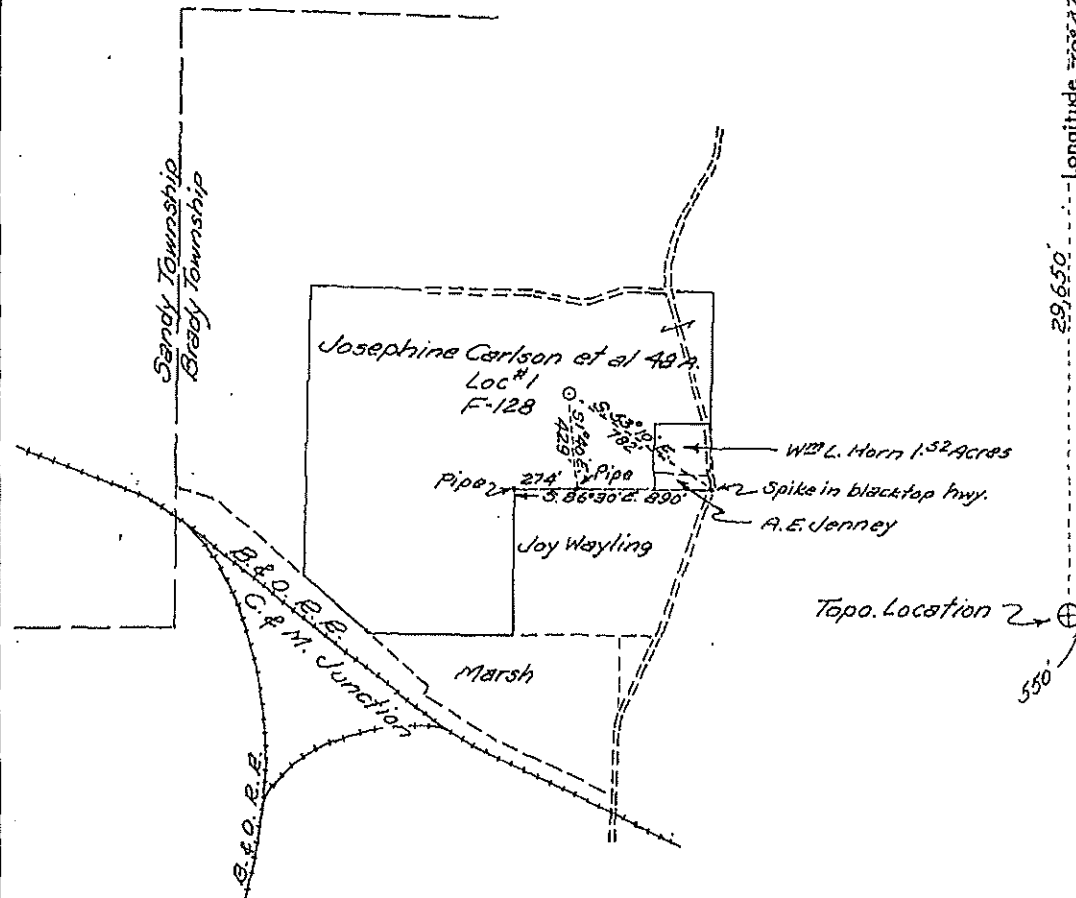
033-20341-P

FORMATION	TOP	BOTTOM	GAS AT	OIL AT	WATER AT (Fresh or Salt Water)	REMARKS
Shale	331	417				
	417	419				
Sand	419	423				
Sand & Shale	423	471				
Shale	471	485				
Sand & Shale	485	505				
Shale	505	515				
Sand	515	520				
Sand & Shale	520	524				
Sand	524	554				
Sand & Shale	554	561				
Sand	561	630				
Sand & Shale	630	675				
Sand	675	735				
Sandy Shale	735	760				
Sand	760	804				
Little Red	804	810				
Sandy Shale	810	890				
Sand & Shale	890	945				
Shale	945	965				
Sand w/little shale	965	1020				
Sandy Shale	1020	1025				
Sand	1025	1050				
Sand streak red rock	1050	1055				
Sand	1055	1060				
Sandy shale	1060	1075				
Sand	1075	1090				
Shale	1090	1100				
Sand	1100	1125				
Shale	1125	1130				
Sandy Shale	1130	1150				
Sand	1150	1155				
Sandy shale	1155	1165				
Sand	1165	1180				
Sandy Shale	1180	1225				
Sand	1225	1260				
Sand & Shale	1260	1280				
Sand	1280	1290				
Shale	1290	1300				
Sandy Shale	1300	1320				
Sandy Shale	1320	1710				Set 8 5/8" @ 1320'
Shale	1710	1780				
Red rock & Shale	1780	1790				
Sandy Shale	1790	1830				
Sandy red rock	1830	1835				
Sandy Shale	1835	1848				
Red rock	1848	1854				
Sandy shale	1854	2550				
Sand	2550	2640				
Sandy Shale	2640	2710				
Sand	2710	2820				
Sandy Shale	2820	2900				
Shale	2900	3040				

Date January 12, 19 61

APPROVED FELMONT OIL CORPORATION, Owner

By W. H. S. Young
(Title) Vice President



Longitude 78° 45'

29,650'

550'

- New Location
- Drill Deeper
- Abandonment PARTIAL PLU G 7-20-79
- Re-drill

Company Felmont Oil Corporation
 Address P.O. Box 354 Bradford, Penna.
 Farm Josephine Carlson et al
 Tract _____ Acres 48 Lease No. _____
 Well (Farm) No. 1 Co. Serial No. F-128
 Angle of Deviation, if any None
 Elevation 1633 (Ground) Quadrangle Dubois
 County Clearfield Township Brady
 Engineer Wm. H. Young
 Engineer's Registration No. N.Y. 21406
 File No. _____ Drawing No. _____
 Date October 26, 1960 Scale 1" = 660'

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MINES

Oil and Gas Division
HARRISBURG

WELL LOCATION MAP

Dept. File No. 611-262
033-20341-P

© Denotes Values of Well on United States Topographic Maps.

Scale 15' 7 1/2'

WORKABLE COAL SEAMS TO BE PENETRATED

Name of Seam	Owner of Seam
<u>All lower, productive</u>	<u>Forney D. Winner</u>
	<u>& Mary E. Winner, wife</u>
	<u>212 Wheeler St.</u>
	<u>Lock Haven, Penna.</u>