

Commonwealth of Virginia Department of Mines, Minerals, and Energy Division of Gas and Oil P.O. Box 1416; Abingdon, VA 24212 Telephone: (276) 676-5423

Tracking Number:	574
Company:	Daugherty Petroleum, Inc.
File Number:	LE-0209
Operations Name:	1774
Operation Type:	Gas
Drilling Report Type:	Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data				
Date drilling commenced:	3/28/2007	Drilling Contractor:	PHOEN	IX DRILLING, INC
Date drilling completed:	4/19/2007	Rig Type:	Rotary	Cable Tool
Driller's Total Depth (feet):	5,814	0 71		
Log Total Depth (feet):	0	Formation At Total De	pth Bro	own Shale

2. Final Location Plat (as required by 4 VAC25-150-360.C.)

Permitted State Plane X 680,003	Final Plat State Plane X: 680,003
Permitted State Plane Y: 208,671	Final Plat State Plane Y: 208,671

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
1774 PLAT	1774PLAT.pdf

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
240	3	INCH
360	2	INCH

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
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Coal Seams

List of Attached Items:

Description	FileName	
1774 SEAMS	1774SEAMS.pdf	

Gas and Oil Shows

List of Attached Items:

Description	FileName	
1774 SHOWS	1774SHOWS.pdf	

4. Electric Logs (As required by 4VAC25-150-280.A.)

List all logs run: GR/DEN/NEU/TEMP/AUD/PE

Did logs disclose vertical locations of a coal seam?
Yes
No

5. Survey Results (As required by 4VAC25-150-280.B.2)

List of Attached Items:

Description	FileName	
1774 SURVEY	1774SURVEY.pdf	

6. Casing and Tubing Program

List of Attached Items:

Description	FileName	
1774 CASING	1774CASING.pdf	

7. Remarks

Use this space to note any conditions or occurrences, such as lost circulation, fishing jobs, junk left in hole, sidetracks, squeeze jobs, etc., not shown above. Include data and depth of condition/occurence.

8. Drillers Log

Compiled By: SHANNON WILLIAMS

List of Attached Items:

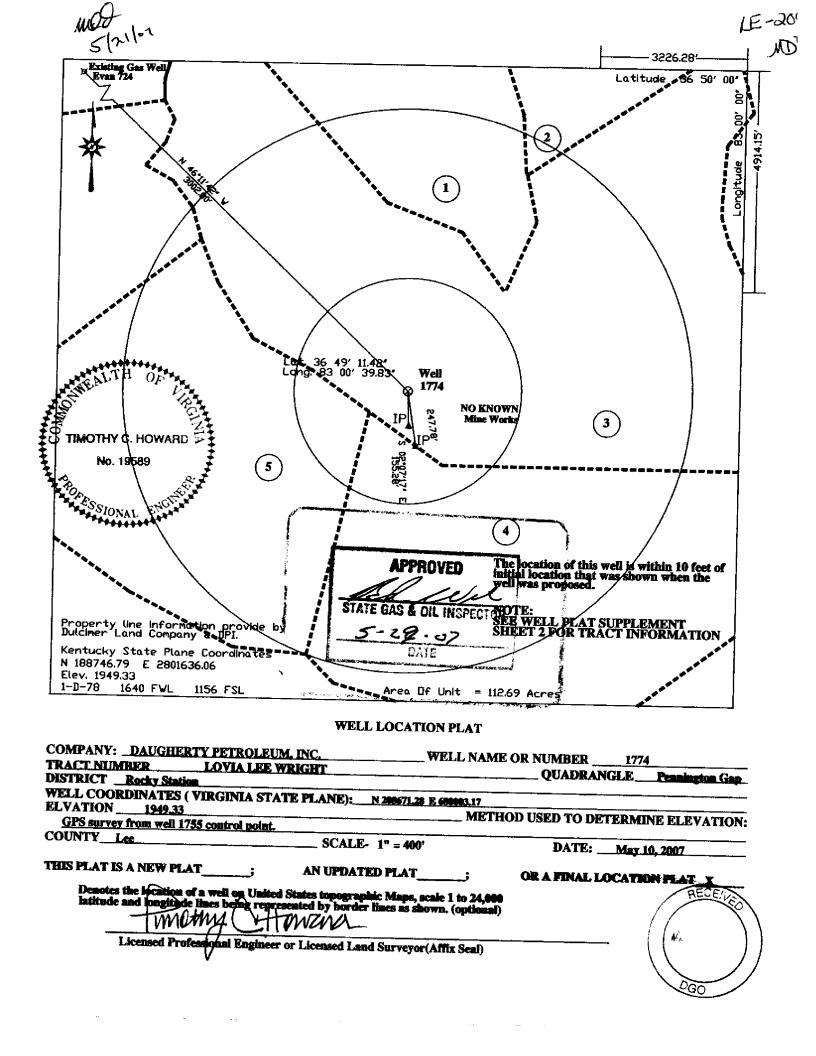
Description	FileName
1774 DRILL	1774DRILL.pdf

9. Comments

PREVIOUSLY APPROVED BY DGO M. DEERING ON 6/26/07.

10. Signature

Permitee: Dat	ugherty Petroleum, Inc.	Date: 7/30/2007	(Company)
Signed By: SH	IANNO WILLIAMS	Title: GEOLOGIST	(Signature)
INTERNAL US	SE ONLY		
Submit Da	ate: 7/30/2007		
Statu	us: Inspr Approved	Date: 9/10/2007	
Final PDF Da	ate: 9/10/2007		



Coal Seams				Feet	GPM/I	nch Stream
NAME None reported	ТОР	BOTTOM	THICKNESS	MINING YES	IN AREA NO	MINED OUT

Gas and Oil Shows

				IPF	DDDCCUDE	HOURS
FORMATION	TOP	BOTTOM	THICKNESS	(MCFD/BOPD)	PRESSURE	TESTED
Big Lime	4078'	4481'	403'	Odor		
Weir	4481'	4800'	319'	Odor		
Brown Shale	4946'	5482'	536'	Odor		

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SURVEY RESULTS

Depth Of Survey	Direction/Distance/ Degrees From True Vertical	Depth Of Survey	Direction/Distance Degrees From True Vertical
500'	1/4 deg	Deptil of Bulley	
700'	1/4 deg		
900'	3/4 deg		
1100'	1 deg		
1300'	3/4 deg		
1506'	3/4 deg		
1716'	3/4 deg		
1916'	3/4 deg		
2116'	3/4 deg		
2316'	3/4 deg		
2400'	1/2 deg		
2646'	1/2 deg		
2856'	1/2 deg		
3036'	³ / ₄ deg		
3236'	³ / ₄ deg		
3436'	³ / ₄ deg		

Use additional sheets as necessary

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CASING AND TUBING PROGRAM

	Casing	Casing Interval	Hole Size	Cement Used In Cu/Ft		ented irface No	Date Cemented	Packers Or Bridge Plugs Kind/Size/Set
Conductor	13 3/8"	0'-40'	17 1/2"	N/A	<u> </u>			
Surface						_		
Water Protection	9 5/8"	0'-310'	12 3/8"	130'	X		3-29-07	
Coal Protection	7"	0'-3476'	8 ³ ⁄4"	729'	X		4-13-07	
Other Casing And Tubing Left In Well	4 1/2"	0'-5769'	6 1⁄4"	210'		x	4-18-07	
Liners				<u> </u>			<u> </u>	

Permit Number

7772

DRILLER'S LOG

Compiled by: Shannon Williams

		General		De	pth		
Geologic Age	Formation	Lithology	Color	Тор	Bottom	Thickness	Remarks
Pennsylvanian	Norton	Sand/SH/Coal	D. Gray	0'	1512'	1512'	
	Lee Sands	Sand/SH/Coal	Gray/Blk	1512'	2908'	1396'	
Mississippian	Upper Pennington	Shale	Gray	2908'	3559'	651'	
	Ravencliff	Sand/Shale	Br/Gray	3559'	3624'	65'	
	Maxon	Sand/Shale	Wh/Gray	3624'	3810'	184'	
	Lower Pennington	Shale	Gray	3810'	4002'	192'	
	Little Lime	Lime	Gray	4002'	4068'	66'	1
	Pencil Cave	Shale	Grn/Gray	4068'	4078'	10'	
	Big Lime	Lime	Wh/Gray	4078'	4480'	402'	
	Weir	Sand/Siltstone	Dk Gray	4480'	4800'	320'	
	Sunbury	Shale	Black	4800'	4894'	94'	
	Berea	Siltstone/Sh	Dk Gray	4894'	4946'	52'	
	Brown Shale	Shale	Black	4946'	5482'	536'	
	Corniferous	Lime/Dlmite.	Tan/Gray	5482'	5682'	200'	
Silurian	Clinton	Shale	Red/Grn.	5682'	5814'	132'	LTD: 5814

Permittee: Daugherty Petroleum, Inc.

_ (Company)

(Signature)

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By: Shannon Williams, Geologist

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