



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: 573
 Company: Daugherty Petroleum, Inc.
 File Number: LE-0214
 Operations Name: 1773
 Operation Type: Gas
 Drilling Report Type: Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 3/30/2007 Drilling Contractor: PHOENIX
 Date drilling completed: 4/9/2007 Rig Type: Rotary Cable Tool
 Driller's Total Depth (feet): 5,778
 Log Total Depth (feet): 0 Formation At Total Depth Silurian

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

Permitted State Plane X 677,490 Final Plat State Plane X: 677,490
 Permitted State Plane Y: 208,316 Final Plat State Plane Y: 208,316

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
1773 PLAT	1773PLAT.pdf

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
DUSTED		

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
3,039	DAMP	
3,424	DAMP	

Coal Seams

List of Attached Items:

Description	FileName
1773 SEAMS	1773SEAMS.pdf

Gas and Oil Shows

List of Attached Items:

Description	FileName
1773 SHOWS	1773SHOWS.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
1773 SURVEY	1773SURVEY.pdf

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
1773 CASING	1773CASING.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/occurrence.

8. Drillers Log

Compiled By: SHANNON WILLIAMS

List of Attached Items:

Description	FileName
1773 DRILL	1773DRILL.pdf

9. Comments

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

10. Signature

Permitee: Daugherty Petroleum, Inc. Date: 7/30/2007 (Company)

Signed By: SHANNON WILLIAMS Title: GEOLOGIST (Signature)

INTERNAL USE ONLY

Submit Date: 7/30/2007

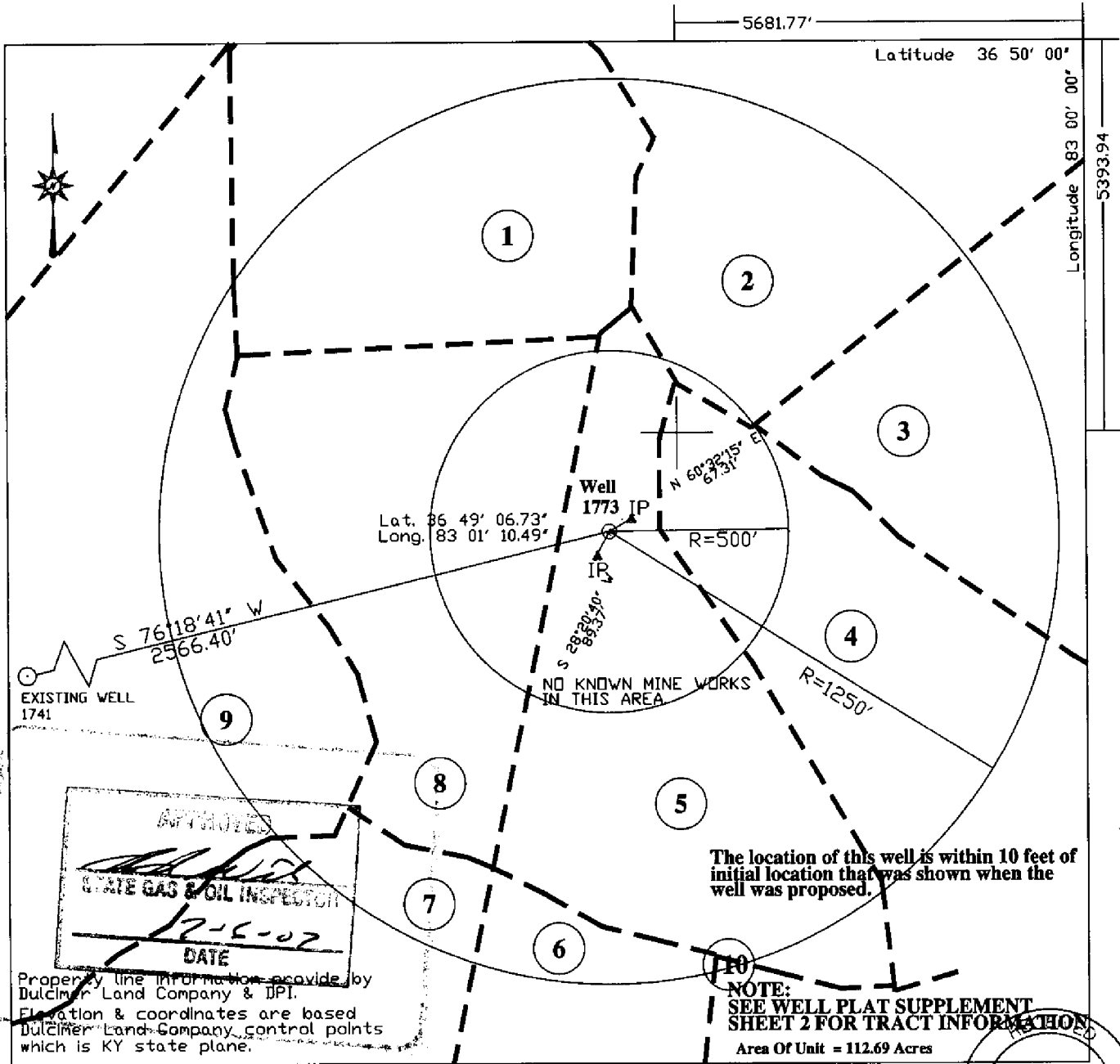
Status: Inspr Approved

Date: 9/10/2007

Final PDF Date: 9/10/2007

MDR
6/18/02

LE 214



WELL LOCATION PLAT

COMPANY: DAUGHERTY PETROLEUM, INC. WELL NAME OR NUMBER 1773

TRACT NUMBER MARY SIMONELLI QUADRANGLE Permian Gap

DISTRICT Rocky Station

WELL COORDINATES (VIRGINIA STATE PLANE): N 208316.42 E 677490.38

ELEVATION 2011.90 METHOD USED TO DETERMINE ELEVATION:
GPS survey from control point at well 1755.

COUNTY Lee SCALE- 1" = 400' DATE MAY 25, 2007

THIS PLAT IS A NEW PLAT _____; AN UPDATED PLAT _____; OR A FINAL LOCATION PLAT X

Denotes the location of a well on United States topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown. (optional)

[Signature] 6-13-07
Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)



Coal Seams

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		MINED OUT
				YES	NO	
Lower Mason	97'	99'	2'			X

Gas and Oil Shows

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Big Lime	4136'	4568'	432'	Odor		
Weir	4568'	4899'	331'	Odor		
Brown Shale	5048'	5538'	490'	Odor		

Form DGO-GO-14
Rev. 1/98

SURVEY RESULTS

Depth Of Survey	Direction/Distance/ Degrees From True Vertical	Depth Of Survey	Direction/Distance Degrees From True Vertical
200'	½ deg	3539'	¾ deg
339'	1 ½ deg		
539'	1 deg		
729'	1 deg		
929'	1 ¼ deg		
1129'	1 deg		
1329'	1 deg		
1539'	1 deg		
1749'	1 deg		
1959'	1 deg		
2139'	¾ deg		
2339'	¾ deg		
2539'	¾ deg		
2739'	¾ deg		
2949'	¾ deg		
3159'	¾ deg		
3339'	¾ deg		

Use additional sheets as necessary

DRILLER'S LOG

Compiled by: Shannon Williams

Geologic Age	Formation	General Lithology	Color	Depth		Thickness	Remarks
				Top	Bottom		
Pennsylvanian	Norton	Sand/SH/Coal	D. Gray	0'	1624'	1624'	
	Lee Sands	Sand/SH/Coal	Gray/Blk	1624'	3041'	1417'	
Mississippian	Upper Pennington	Shale	Gray	3041'	3663'	622'	
	Ravencliff	Sand/Shale	Br/Gray	3663'	3770'	107'	
	Maxon	Sand/Shale	Wh/Gray	3770'	3920'	150'	
	Lower Pennington	Shale	Gray	3920'	4094'	174'	
	Little Lime	Lime	Gray	4094'	4130'	36'	
	Pencil Cave	Shale	Grn/Gray	4130'	4138'	8'	
	Big Lime	Lime	Wh/Gray	4138'	4559'	421'	
	Weir	Sand/Siltstone	Dk Gray	4559'	4898'	339'	
	Sunbury	Shale	Black	4898'	4992'	94'	
	Berea	Siltstone/Sh	Dk Gray	4992'	5046'	54'	
Silurian	Brown Shale	Shale	Black	5046'	5538'	492'	
	Corniferous	Lime/Dlomite.	Tan/Gray	5538'	5730'	192'	
	Clinton	Shale	Red/Grn.	5730'	5778'	48'	LTD: 5778'

Permittee: Daugherty Petroleum, Inc. (Company)By: Shannon Williams (Shannon Williams, Geologist) (Signature)Form DGO-GO-14
Rev. 1/98